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SPECIAL ARTICLES

Influenza Prevalence and Mortality in the United States

Current World Prevalence of Communicable Diseases

A Summary of Recent State Mortality Statistics



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HUGH S. CUMMING, *Surgeon General*

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Asst. Surg. Gen. R. C. WILLIAMS, *Chief of Division*

The PUBLIC HEALTH REPORTS are issued weekly by the United States Public Health Service through its Division of Sanitary Reports and Statistics, pursuant to acts of Congress approved February 15, 1893, and August 14, 1912.

They contain: (1) Current information of the prevalence and geographic distribution of preventable diseases in the United States in so far as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other communicable diseases throughout the world. (2) Articles relating to the cause, prevention, or control of disease. (3) Other pertinent information regarding sanitation and the conservation of the public health.

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PUBLIC HEALTH REPORTS

VOL. 44

FEBRUARY 1, 1929

NO. 5

INFLUENZA PREVALENCE IN THE UNITED STATES

Telegraphic reports from the health officers of 44 States for the week ended January 19, 1929 (see p. 248), show decreases in the number of cases of influenza in all sections of the United States except in New York and New England.

The total number of cases of influenza reported to the Public Health Service for the week was less than 90,000, which may be compared with 140,000 cases reported for the preceding week.

The department of health of the State of New York received reports of influenza from 227 localities in 55 counties of the State (outside of New York City) for the week ended January 19, 1929. These reports indicated a considerable increase over the reports for the preceding weeks. Many local health officers reported that the disease was mild.

SUMMARY OF INFLUENZA MORTALITY¹

Mortality from influenza and pneumonia during the current epidemic in a group of cities of the United States is shown in Table 1, with comparative data for the epidemics of 1918, 1920, and 1926.

TABLE 1.—A comparison of the weekly excess mortality rate (annual basis) per 100,000 for influenza and pneumonia during the influenza epidemics of 1918, 1920, 1926, and 1928, in the large cities of the United States

1918		1920		1926		1928-29	
Week ended—	Excess *	Week ended—	Excess *	Week ended—	Excess ^b	Week ended—	Excess *
Sept. 14.....	-6			Feb. 6.....	-2	Nov. 17.....	-9
Sept. 21.....	76			Feb. 13.....	8	Nov. 24.....	11
Sept. 28.....	326	Jan. 17.....	-27	Feb. 20.....	73	Dec. 1.....	35
Oct. 5.....	1,028	Jan. 24.....	184	Mar. 6.....	97	Dec. 8.....	60
Oct. 12.....	2,557	Jan. 31.....	741	Mar. 13.....	149	Dec. 15.....	122
Oct. 19.....	4,592	Feb. 7.....	1,241	Mar. 20.....	200	Dec. 22.....	233
Oct. 26.....	4,605	Feb. 14.....	1,319	Mar. 27.....	241	Dec. 29.....	276
Nov. 2.....	3,332	Feb. 21.....	867	Apr. 3.....	194	Jan. 5.....	392
Nov. 9.....	1,832	Feb. 28.....	422	Apr. 10.....	131	Jan. 12.....	426
Nov. 16.....	989	Mar. 6.....	185	Apr. 17.....	84	Jan. 19.....	323
Nov. 23.....	620	Mar. 13.....	69	Apr. 24.....	14		
Nov. 30.....	526	Mar. 20.....	9	May 1.....	28		
Dec. 7.....	617			May 8.....	29		
Dec. 14.....	702						
Dec. 21.....	801						
Dec. 28.....	620						

* Excess over corresponding week of median year of the period 1910-1916 in cities included in the Weekly Health Index of the Bureau of the Census. Data from Public Health Reports, Mar. 26, 1920 (35:748).

^b Excess over corresponding week of 1925 in 96 cities included in the Public Health Reports of the Public Health Service. Data from Reprint 1104 from the Public Health Reports, Aug. 20, 1926 (41:1750).

^c Excess over mean of corresponding weeks in 1924, 1925, and 1927.

^d From the Office of Statistical Investigations, U. S. Public Health Service.

For the group of cities as a whole the excess mortality from influenza and pneumonia reached a peak of 426 per 100,000 (annual basis) in the week ended January 12, 1929, and by January 19 had declined to 328 per 100,000, or considerably less than the excess rate of 392 for the week ended January 5, 1929.

The peak of the reported cases in the States reporting to the Public Health Service came in the week ended December 22, 1928, or three weeks earlier than the peak of the mortality. Some lag in the mortality would, of course, be expected.

Comparing the present outbreak with former epidemics of influenza that have occurred in recent years, it may be seen that in the peak week the mortality of the 1928-29 epidemic was nearly twice the mortality of the corresponding week of the 1926 epidemic. The excess mortality rate in the 1920 epidemic was about three times the present excess rate, and the 1918 epidemic showed a mortality in the peak week of more than ten times the peak mortality of the present outbreak.

Small but distinct epidemics occurring in the early months of 1922 and of 1923 are not shown in the table. They were of less importance in mortality than the 1926 epidemic. The outbreak of 1928-29 is, therefore, the most severe since 1920. Were it not for the overshadowing effect of the pandemic of 1918 and the 1920 epidemic, the present outbreak would probably be considered more seriously.

Data for the cities in each geographic division are shown in Table 2.

TABLE 2.—*Excess mortality from influenza and pneumonia per 100,000 population in cities of the various geographic divisions of the United States*

EXCESS¹ ANNUAL RATE PER 100,000

Geographic division	November, 1928				December, 1928					January, 1929		
	3	10	17	24	1	8	15	22	29	5	12	19
	Total	-14	-21	-9	+11	+35	+60	+122	+233	+276	+302	+426	+328
Pacific	+35	+54	+62	+162	+358	+458	+431	+240	+253	+212	+99	+33
Mountain	-1	-10	+35	+30	+349	+627	+1,148	+764	+369	+196	+126	+101
West South Central	0	-29	-79	-10	+23	+43	+36	+246	+544	+809	+821	+536
East South Central	+23	-2	-38	-54	-47	+128	+96	+36	+219	+807	+1,628	+729
West North Central	-8	-14	-17	-13	+32	+77	+224	+336	+379	+973	+315	+912
East North Central	-9	-16	-46	-3	+30	+27	+87	+241	+500	+567	+514	+240
South Atlantic	-42	-88	-30	+15	+10	+33	+152	+138	+268	+254	+443	+110
Middle Atlantic	-40	-28	-33	-2	-1	+4	+54	+142	+229	+328	+400	+602
New England	-10	-22	-45	+3	-36	-43	-16	+20	+24	+90	+171	+313

¹ Excess over the average of the years 1924-1927 up to Jan. 5 and excess over the average of the years 1924, 1925, and 1927 after that week. The data for 1924-1927 (not shown in this table) are based on cities reporting to the Public Health Service. For 1928 this is true for the geographical districts, except for the last few weeks, when the Weekly Health Index of the Census Bureau was used. Although the cities are not identical in the two cases, a test has shown that the effect on the rates is slight. For the "Total" line, the 1928 data were taken entirely from the Weekly Health Index.

Considering the different geographic divisions, the mortality in the cities from which data are available is definitely on the decline in every division except in the New England, Middle Atlantic, and South

Atlantic sections. The South Atlantic and Middle Atlantic cities appear to have about reached their peak, as the excess rate for the week ended January 19, 1929, is about the same as that for the preceding week. In New England, however, the rise in the week ended January 19 was considerable, but the excess mortality even in that week was relatively low.

On the Pacific coast the mortality was back to normal proportions on January 19, and the Mountain cities were only slightly above normal.

CURRENT WORLD PREVALENCE OF COMMUNICABLE DISEASES¹

The United States, December 2, 1928-January 5, 1929

The prevalence of certain important communicable diseases, as indicated by weekly telegraphic reports from State health departments² to the Public Health Service, from December 2 to January 5, is summarized below.

Influenza.—Brief summaries of the influenza situation may be found on the preceding pages of this issue and in issues for preceding weeks in January and December.

Meningococcus meningitis.—Reports indicated an increase in the prevalence of meningococcus meningitis during the month of December considerably in excess of the normal increase for this season of the year. Nearly all of the States showed some increase in the number of cases, but the most significant increases were reported in North Dakota, Colorado, Oregon, California, Missouri, Montana, Kansas, and Connecticut. For the five weeks ended January 5, 1929, the cases totaled approximately 700, as against 295 cases for the corresponding period in 1927, and 185 cases in 1926.

Poliomyelitis.—The poliomyelitis rate continued to decrease during December, and for the week ended January 5, 1929, the lowest incidence of the disease (10 cases) was recorded since the week ended April 23, 1927, when only 8 cases were reported. Of the 10 cases reported, 5 occurred in New York State and the other 5 were widely scattered over the country. The rate for the five weeks ended January 5, however, was still considerably in excess of the rate in 1926 for the same period.

Smallpox.—In Illinois the cases of smallpox reported during the five weeks ended January 5, 1929, totaled 330, as against 125 for the preceding 5-week period; in Indiana the number of cases increased

¹ From the Office of Statistical Investigations, U. S. Public Health Service.

² The number of States reporting for the various diseases were as follows: Typhoid fever, 41; poliomyelitis, 43; meningococcus meningitis, 42; smallpox, 42; measles, 38; diphtheria, 42; scarlet fever, 41.

from 111 to 225; in Nebraska from 71 to 177; in Oklahoma from 97 to 160; in West Virginia from 33 to 105. The usual seasonal increase in prevalence was noted in other sections of the country, but the incidence continued considerably below that of the corresponding period in the years 1927 and 1926.

Diphtheria.—Reports from the East South Central and South Atlantic States showed marked decreases in the incidence of diphtheria in those sections of the country during the month of December. Slight increases were noted in some of the other States, but the general tendency was toward a decline in the prevalence of the disease. A slightly lower rate than in the corresponding period of either of the two preceding years was maintained during the five weeks ended January 5, 1929.

Typhoid fever.—During the month of December, the typhoid fever rate reached a level considerably lower than was recorded in the two preceding years for the corresponding month. For the five weeks ended January 5, 1929, the number of cases totaled 779—approximately 600 less than were reported in 1927, and 1,000 less than in 1926.

Measles.—The increase in measles which began in the New England and Middle Atlantic States during the month of November, spread through various sections of the country in December. For the five weeks ended January 5, 1929, the incidence rate was practically the same as was recorded during the same period in 1927, but was considerably less than that in 1926.

Scarlet fever.—The incidence of scarlet fever increased slightly during the month of December. However, for the five weeks ended January 5, 1929, the rate was approximately the same as in 1927, for the same period, and slightly below the rate for 1926.

Mortality from all causes.—The mortality from all causes in large cities experienced a very sudden rise early in the month of December, which can, without a doubt, be attributed to the outbreak of influenza that began late in October. The death rate increased steadily throughout the month, and for the week ended January 5, 1929, the rate for 65 large cities was 19.5 per thousand population. For the corresponding period in 1928 the rate was 13.7 and in 1927 it was 14.7.

The total death rate for 66 large cities for the year 1928 was 13, compared with 12.2 for 1927.

Foreign Countries¹

The prevalence of certain communicable diseases in most foreign countries during September, October, and part of November is summarized in the following pages.

¹ Data from the Monthly Epidemiological Report of the Health Section of the League of Nations' Secretariat, Nov. 15, 1928, supplemented by information published in the Public Health Reports.

"Marseilles exanthematic fever."—The "Marseilles exanthematic fever" is the name given to a disease observed since 1922 in Marseilles and Provence, with an apparently increasing incidence. It is possible that cases seem to be more numerous because the disease is more correctly diagnosed as it becomes better known. One case was observed in 1922, 2 cases were noted in 1923, 6 in 1924, 8 in 1925, 9 in 1926, and 38 in 1927. The number of cases observed in 1928 is not fewer than 60. These figures do not correspond with the total number of cases; in one suburb 40 cases were reported by three doctors. Special study is being made of the epidemiology and clinical character of the disease. The disease shows but slight tendency to spread and the mortality is very slight. Experimental comparative studies are in progress, in the Pasteur Institute at Tunis, of dengue, "Marseilles exanthematic fever," and "pustular fever," a disease not yet fully known which has been observed in Tunis in the last 20 years.

Plague.—A severe but localized epidemic of plague occurred from August to October in the neighborhood of Tungliao (also called Payintala) in inner Mongolia. The disease originated in villages north of Tungliao and was carried by people fleeing from the infected villages into the more densely populated area along the railway from Tungliao to Chienchiatien. The Chinese authorities reported 487 deaths from the disease in this area up to the middle of October. By the latter part of October the epidemic had practically come to an end; only eight new cases were reported during the two weeks ended November 10.

In 1917 plague was introduced from Mongolia into certain villages in the Province of Shansi near the Hoang Ho (Yellow River). Outbreaks occurred there in 1919 and in every year since. In 1928 the disease spread considerably and extended into villages in the Lin-Hsien and Hsing-Hsien districts. It was estimated that up to October 20, 1928, about 4,000 deaths from plague had occurred in that area.

The June report of the National Epidemic Prevention Bureau of Peking mentioned a severe plague epidemic with high mortality and a severe epizootic among rats in the Province of Fu-Kien, which includes the coast opposite Formosa, but the localities were not specified.

The usual seasonal increase of plague was evident in Madagascar during October, the majority of the cases occurring as usual in the central part of the island. In Uganda 128 cases of plague were reported in the Eastern Province and Buganda during the month of September, as compared with a maximum for the year of 252 cases in June.

A marked increase of plague occurred in the Bombay Presidency during the four weeks ended October 13; the deaths total 1,860, as compared with 645 during the preceding four weeks. The outbreak

was most severe in the district of Satara, but the Dharwar and Nasik districts were also seriously infected.

Eleven cases of pneumonic plague were reported at Carapujio, an inland locality in the Province of Santiago del Estero, Argentina, South America, during October. In the first days of November, 14 plague cases occurred at Canadahonda, an inland locality of the Province of Cordoba. At Asuncion (Paraguay) 3 cases of plague were reported during the first half of October.

Cholera.—Reports indicated that cholera decreased in September and the first half of October in all ports of India. The highest incidence of the disease was recorded in the week ended August 11, when 7,557 deaths were reported. During the week ended October 13 the number of deaths fell to 2,293. A considerable number of cases of cholera were reported in the ports of Madras and Calcutta, where 109 and 87 deaths, respectively, were reported during the five weeks ended November 3. In the same period there were 6 deaths at Bombay, 1 case at Tuticorin, and 1 death at Rangoon.

Cholera has been less prevalent in China during 1928 than in 1927. An outbreak was reported in September among Chinese troops stationed about 10 miles from Tientsin.

Yellow fever.—Two cases of yellow fever occurred at Bahia during the first half of September, and one case on October 23. The steamer *Bermini* arrived early in October at Santos from Pernambuco with three cases of yellow fever on board. At Bathurst, Gambia, one case was reported on November 2 and one on November 6. A native soldier died from the disease on November 14 in a military training camp at Ouidah, in Dahomey.

Dengue.—The incidence of dengue decreased everywhere in the Mediterranean countries early in November. As the disease was made notifiable in most of the countries only during the epidemic, the reports were very incomplete, but it was evident from the returns that none of the outbreaks in 1928 had been serious outside of Greece. Nevertheless, the disease was rather widespread. In Egypt, from 300 to 500 cases had been reported weekly at Cairo, and a few hundred in the Provinces. At Oran, Algeria, the disease appeared in September and spread widely. The cases were mild, however, and only one death occurred.

Diphtheria in Europe in recent years.—Diphtheria is widespread in all parts of Europe and there has been no decrease in its incidence in recent years. Deaths from the disease have gradually decreased since the middle of the nineties, but there are still nearly 20,000 such deaths in a normal year in Europe outside of Russia. The diphtheria death rate per 100,000 inhabitants in the five years 1922-1926, inclusive, was 10.4 in Scotland; 9.3 in Spain; 8.9 in Ireland; 8.2 in the Irish Free State; 7.9 in England and Wales; 5.7 in Germany;

5.1 in Switzerland; 4.8 in Belgium; and 3.4 in the Netherlands. Mortality from diphtheria was low in all the islands of the western Mediterranean and in the Scandinavian countries. Considerable variation in the distribution of diphtheria mortality is shown in different sections of various countries, which might, in a measure, be due to the enforcement of preventive measures and the promptitude with which serum is administered.

CURRENT STATE MORTALITY STATISTICS

For the information of public-health officials and others interested, the data in the following tables have been compiled from the monthly mortality reports of State health departments for the latest month for which published records are available. Statistics of most communicable diseases are not included, since they are available in other tabulations in the Public Health Reports. Statistics of deaths from other causes are limited for the most part to those causes which appear in the State reports. In the case of States which publish detailed mortality reports each month, the record of only the principal groups of causes and certain important specific causes have been used.

For purposes of comparison, the mortality records for a few preceding years are given, the rates being for the month corresponding to the last month for which the 1928 rate is available.

These tabulations will be enlarged as the current data on mortality from additional States become available.

Monthly State mortality statistics

[All rates are on an annual basis, and, with the exception of mortality from all causes and infant mortality, are per 100,000]

	1928										Corresponding month for—				
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	1927	1926	1925	1924		
ALL CAUSES: ANNUAL RATE PER 1,000															
Alabama:															
White.....	10.7	9.5	9.5	9.6	9.3	8.7	8.7	8.7	9.3	8.7	9.3	9.3	9.3	9.3	
Colored.....	17.7	17.6	17.8	16.4	16.3	17.1	15.7	14.8	16.6	13.6	15.0	15.0	15.0	15.0	
California.....	14.7	14.5	13.6	12.9	12.8	12.2									
Connecticut.....	12.0	12.5	12.0	10.5	9.8	9.3	9.4	10.1							
Indiana.....	13.6	13.6	12.7	11.0	9.9	10.6	(?)	(?)							
Iowa.....	12.1	11.2	10.9	9.3	9.9										
Kansas.....	13.8	12.4	10.9	9.4	9.0	9.7									
Louisiana.....	13.7	13.0	12.3	11.1	12.7	12.2	11.5								
Michigan.....						9.9	9.7	10.6	10.9	11.3					
Minnesota.....	9.6	10.6	10.7	8.3	8.1	8.0	8.1	8.6	8.6	8.6					
Mississippi.....						13.0	11.9	10.7	10.7						
Nebraska.....						8.2	7.9	8.1	8.0	8.3					
New Jersey.....	13.3	13.8	13.2	11.2	0.9	9.9	9.7	10.6	10.8	11.4	11.0	11.6	11.8		
New York ¹	14.4	14.4	14.2	12.8	11.4	11.0	11.7	12.1		11.7	12.5	13.8	12.8		
North Carolina.....	11.2	11.9	11.7	14.3	11.2	11.2	11.0	10.8							
Pennsylvania.....	13.8	13.7	13.5	11.2	10.3	10.1	10.4	10.9		10.6	11.3	11.7	11.3		
South Dakota.....	9.8	8.3	9.6	8.0											
Tennessee.....	12.3	13.6	12.0	11.5	12.7	11.6	11.2								

¹ Exclusive of New York City.

² Not available.

Monthly State mortality statistics—Continued

	1928										Corresponding month for—			
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	1927	1926	1925	1924	
INFANT MORTALITY RATE PER 1,000 LIVE BIRTHS														
Alabama:														
White	78	59	59	64	65	54	57	62	61	58	48			
Colored	109	100	113	83	93	99	79	82	85	81	77			
California	66	59	64	60	59	53								
Connecticut	66	83	71	56	43	52	42	592		49	66	76	63	
Indiana	68	75	69	56	52	63	64		60					
Iowa	66	58	54	54	48									
Kansas	74	(?)	53	44	(?)	65								
Louisiana	89	93	102	81	79	62	69							
Michigan					49	53	58	66	69					
Minnesota						44	38	50	41					
Nebraska				48	37	45	50	62						
New Jersey				52	56	(?)	56	56						
New York ¹	73	75	73	67	52	55	60	62		58	69	71	65	
Pennsylvania	83	84	89	59	54	58	66							
South Dakota	72	59	65	47							56			
Virginia														
Wisconsin	59	68	75	60	53	47	51	55	59					
INFLUENZA (11)														
Alabama:														
White	98.8	78.9	67.3	26.8	16.8	11.9	12.3	21.0	30.5	19.6	29.8			
Colored	124.0	107.7	112.1	45.0	29.0	25.1	30.0	33.0	42.2	27.2	34.0			
California	21.4	17.1	15.2	14.4	12.1	8.3								
Connecticut	19.7	29.4	71.5	16.6	6.6	2.9	6.0	12.4		4.5	12.8	10.0	8.6	
Indiana	69.3	82.0	96.4	27.4	13.7	8.2	11.9	16.3						
Iowa	79.5	87.2	67.9	24.1	14.8	16.7								
Kansas	139.9	112.7	78.9	23.2	11.5									
Kentucky														
Louisiana	125.0	73.0	40.5	28.1	19.9	29.0	21.8							
Michigan					9.0	5.4	8.7	10.0	13.8					
Minnesota	29.8	58.1	104.2	24.1	13.8	7.8	8.0	16.4	16.1					
Mississippi					15.8	19.1	11.5	9.2						
Nebraska				19.0	8.4	11.7	9.5	20.1						
New Jersey	24.7	28.0	23.7	9.2	3.7	3.4	4.8	7.7	11.5	8.4	10.6	12.2	11.4	
New York	25.3	27.0	34.3	18.9	4.4	2.3	4.1	8.8		10.7	7.4	11.2		
North Carolina	63.7	58.0	34.1	22.8	6.8	7.6	6.6	14.0						
Pennsylvania	51.3	47.1	65.0	28.6	10.3	7.7	12.1	14.4		11.8	11.7	17.4	12.1	
South Carolina	132.6	50.9	26.5	20.2	8.8	12.0	11.1							
South Dakota	60.0	48.4	98.7	41.5										
Tennessee	88.5	112.3	74.4	40.8	16.0	13.2	9.7			21.7				
Virginia														
Wisconsin	30.7	70.9	83.7	25.1	11.6	5.2	11.1	10.0	16.5					
TUBERCULOSIS, ALL FORMS (31-37)														
Alabama:														
White	57.5	48.5	43.5	52.1	50.5	37.8	50.7	38.5	30.1	39.2	48.1			
Colored	162.2	184.0	160.9	182.6	172.7	168.8	128.1	141.1	158.0	115.6	158.9			
California	134.6	153.8	143.4	128.4	133.4	120.7								
Connecticut	83.9	77.6	71.5	73.9	68.6	55.4	55.8	63.5		54.9	73.3	53.1	70.0	
Indiana	88.2	76.2	81.9	80.6	57.5	58.9	57.5	64.1						
Iowa	38.8	36.6	45.6	35.6	38.3									
Kansas	49.4	49.1	43.6	39.8	38.5	39.8								
Kentucky						73.8								
Louisiana	106.9	107.3	107.5	96.1	63.0	96.0	72.4							
Michigan						62.8	60.8	59.1	58.2	64.1				
Minnesota	60.1	55.0	64.0	47.8	43.7	54.9	50.1	34.6	47.8					
Mississippi						78.2	82.9	78.1	54.6					
Nebraska					35.4	20.1	28.4	20.7	20.1					
New Jersey	78.9	83.1	86.3	87.2	68.4	76.1	66.9	73.6	63.7	68.2	71.1	71.3	77.4	
New York ¹	82.5	88.5	82.5	82.9	73.2	71.1	70.0	71.8		64.9	77.0	86.1	90.8	
North Carolina	86.6	88.2	93.8	106.4	65.7	81.8	77.9	60.9						
Pennsylvania	78.4	81.9	79.9	65.6	69.0	59.6	62.4	58.0		57.6	66.7	66.5	68.4	
South Carolina	87.2	86.8	97.9	80.9	87.8	66.3	53.5							
South Dakota	80.3	67.4	61.9	57.0										
Tennessee	140.7	159.5	104.9	129.8	134.1	112.5	99.7							
Virginia								69.0	84.1	71.3				
Wisconsin	56.2	63.0	79.3	60.1	52.2	52.2	49.0	42.3	47.9					

¹ Exclusive of New York City.² Not available.

February 1, 1929

Monthly State mortality statistics—Continued

	1928										Corresponding month for—			
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	1927	1926	1925	1924	
CANCER, ALL FORMS (43-49)														
Alabama:														
White	44.9	49.2	44.9	59.4	49.1	62.4	52.1	54.7	59.4	45.2	45.8			
Colored	48.8	36.8	51.4	46.3	48.8	47.5	46.3	47.5	43.6	43.5	39.4			
California	129.2	145.8	148.3	131.4	127.7	128.2								
Connecticut	105.8	102.5	84.6	113.8	99.2	110.2	103.3	132.8		128.4	109.5	107.0	108.1	
Indiana	117.1	105.3	90.8	104.3	87.1	109.7	94.6	90.8						
Iowa	121.2	104.2	114.0	110.2	115.9									
Kansas	104.6	96.8	93.0	98.8	86.8	93.7								
Kentucky						54.4								
Louisiana	56.2	69.9	71.2	61.8	70.6	75.5	69.9							
Michigan						92.3	87.5	103.9	92.6	92.0				
Minnesota	115.1	93.0	108.1	110.0	107.3	105.1	110.4	104.7	100.1					
Mississippi						39.4	50.0	52.3	49.3					
Nebraska					90.7	87.0	82.0	99.4	93.7					
New Jersey	107.9	104.4	120.5	105.4	97.7	99.8	101.9	112.2	104.4	104.5	101.5	105.8	105.7	
New York ¹	128.6	122.0	121.8	117.2	123.5	123.5	122.0	123.7		116.1	125.7	134.1	118.9	
Pennsylvania	95.4	102.0	95.5	91.8	99.4	99.4	97.6	96.0		96.9	92.7	93.9	87.3	
South Carolina	51.2	34.6	50.5	39.2	46.7	34.1	41.1							
South Dakota	66.9	63.0	73.6	81.2										
Tennessee	53.2	67.6	47.5	73.4	70.6	55.5	55.0			61.0				
Virginia														
Wisconsin	113.2	106.7	98.1	(?)	111.6	104.1	106.7	103.7	103.0					

DIABETES (57)

Alabama:														
White	9.8	8.0	7.7	7.2	4.2	9.1	15.2	8.4	9.4	6.8	6.9			
Colored	18.5	9.5	7.9	6.8	10.5	5.3	15.0	4.0	9.5	2.7	9.5			
California	25.1	25.9	21.4	17.6	18.3	19.4								
Connecticut	21.9	19.6	16.1	18.1	20.4	16.8	15.8	18.2						
Indiana						14.5	16.1	16.3						
Iowa	19.9	25.6	19.4	12.5	15.0									
Kansas	28.9	23.2	18.6	21.9	16.7	14.8								
Kentucky					9.7									
Louisiana	19.3	15.0	8.5	8.1	9.7	13.3	6.9							
Michigan						16.9	16.2	18.3	20.5	19.6				
Minnesota	24.7	21.0	25.1	15.2	13.4	12.5	12.5	13.4	21.9					
Mississippi					5.9	7.2	5.4	6.6						
Nebraska				15.6	16.7	13.4	19.0	15.1						
New Jersey						16.0	19.4	21.3	21.3	23.9				
New York ¹	27.4	26.3	28.6	24.6	18.5	24.0	21.5	25.0		20.4	22.3	16.9	19.2	
Pennsylvania	27.8	25.3	23.2	19.9	18.6	20.0	17.4	20.8		18.0	19.0	17.5	14.6	
South Carolina	11.4	3.3	6.9	4.6	3.8	5.1	6.5							
South Dakota	25.1	27.7	13.4	15.6										
Tennessee					6.8	6.1	7.1	10.2		9.0				
Virginia														

DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE (70-86)

Alabama:														
White						75.0	69.4	72.4	72.9	89.1				
Colored						118.7	133.2	132.2	116.0	139.0				
California	142.7	132.7	141.1	132.5	129.5									
Iowa	153.2	145.8	142.6	125.3	132.4									
Kansas	173.2	171.7	146.3	115.4	132.2	111.0								
Kentucky						82.1								
Louisiana	101.4	110.4	91.8	89.8	102.6	103.3	97.3							
Michigan						118.5	103.4	126.4	124.1	126.4				
Minnesota							76.6	82.7	88.2	80.9				
Nebraska				102.8	94.5	97.0	96.8	102.0						
New Jersey	126.3	139.5	132.5	110.8	98.6	98.3	95.8	110.9	113.7	110.7	129.6	122.0	139.6	
New York ¹	176.1	172.7	159.9	145.7	128.4	120.6	136.1	139.3		142.3	145.6	169.6	192.9	
Pennsylvania					119.4	100.8	108.1	97.6	115.4					
South Dakota	90.3	96.8	98.7	76.0						106.8				
Virginia														

¹ Exclusive of New York City.² Not available.

Monthly State mortality statistics—Continued

	1928										Corresponding month for—			
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	1927	1926	1925	1924	
CEREBRAL HEMORRHAGE, APoplexy (74)														
Alabama:														
White	57.5	48.5	56.1	49.2	45.6	35.7	42.7	39.2	51.4	54.2	51.0			
Colored	87.1	85.9	75.2	69.5	75.2	75.2	80.4	83.1	72.2	73.4	76.1			
California	102.3	94.5	100.5	92.1	89.7	72.7	97.3	96.4						
Indiana	(?)	134.1	107.5	95.4	90.8	93.8								
Iowa	111.5	102.2	105.7	92.7	91.7									
Kansas	141.8	131.9	106.5	91.5	98.8	82.8								
Kentucky						48.0								
Louisiana	74.9	75.5	57.4	63.6	75.5	61.6	61.8							
Michigan						83.9	77.2	87.5	92.3	87.5				
Minnesota							59.3	59.0	67.5	63.0				
Mississippi						58.5	59.2	67.9	61.8					
Nebraska					80.4	67.7	75.3	76.9	81.1					
New Jersey						73.6	70.3	72.0	80.7	80.0				
New York ¹	134.7	135.3	124.6	113.5	95.5	92.0	104.2	104.4		108.0	112.4	133.6	127.0	
Pennsylvania	97.2	101.0	88.2	87.8	78.7	76.8	68.4	80.7		80.6	85.2	63.6	(?)	
South Dakota	60.2	57.0	53.5	38.0							70.9			
Virginia														
DISEASES OF THE CIRCULATORY SYSTEM (87-96)														
Alabama:														
White						114.0	117.7	106.5	113.5	124.1				
Colored						184.6	188.5	183.3	171.4	200.2				
California	319.2	318.6	290.0	280.4	266.2	256.4								
Iowa	310.8	249.0	238.1	211.5	226.9									
Kansas	250.9	236.7	197.0	192.3	155.9	173.9								
Kentucky						143.0								
Louisiana	215.6	213.4	193.2	168.6	186.6	191.4	184.7							
Michigan						197.5	188.8	222.1	240.3	241.7				
Minnesota							145.3	156.0	172.2	194.4				
Nebraska														
New Jersey	281.6	306.6	286.0	231.2	209.2	213.2	215.9	250.8	254.7	254.1	213.9	242.7	215.9	
New York ¹	369.1	387.7	379.4	342.5	301.6	276.5	311.4	335.4		300.8	326.1	339.3	298.3	
Pennsylvania						247.5	209.1	196.9	218.6	236.1				
South Carolina	277.9	263.7	341.1	279.4	305.1	274.1	283.3							
South Dakota	182.3	115.8	152.2	136.5							156.4			
Virginia														
DISEASES OF THE HEART (87-90)														
Alabama:														
White	96.0	98.5	101.6	100.4	102.3	104.4	99.2	103.0	115.2	91.0	90.9			
Colored	189.9	190.0	188.6	183.9	168.8	180.7	166.2	155.6	182.6	110.1	115.5			
California	278.6	276.7	255.6	243.0	225.9	214.0								
Connecticut	198.4	196.8	101.4	160.6	192.6	164.9	156.0	156.8		155.9	161.6	172.4	162.2	
Indiana	188.0	194.6	180.2	172.0	149.4	169.1	182.3	201.7						
Iowa	279.8	222.0	215.8	186.9	103.0									
Kansas	215.6	214.2	169.4	163.1	135.4	146.3								
Kentucky					129.7									
Louisiana	201.7	200.9	181.7	157.9	172.7	178.7	179.1							
Michigan						173.4	163.9	187.9	215.4	205.7				
Minnesota	160.9	125.6	154.4	130.1	120.7	128.5	127.4	58.0	157.8					
Mississippi						111.1	103.9	99.9	88.7					
Nebraska						157.3	132.1	136.3	149.8	153.9				
New Jersey						191.4	196.6	193.3	229.0	233.7				
New York ¹	323.7	342.7	324.5	300.7	257.8	207.3	237.2	291.3		264.4	284.6	288.9	284.1	
Pennsylvania	272.0	249.0	233.0	220.9	189.7	176.0	196.9	214.0		199.5	202.0	181.0	(?)	
South Dakota	163.9	103.7	135.5	115.8										
Tennessee	101.7	133.2	122.4	127.9	124.7	122.4	118.7			143.6				
Virginia														
DISEASES OF THE RESPIRATORY SYSTEM (97-107)														
Alabama:														
White						34.3	35.7	37.7	59.6	91.3				
Colored						56.7	54.1	81.7	76.5	148.5				
Iowa	105.2	104.2	91.2	53.1	36.9									
Kansas	75.1	107.4	69.9	45.1	28.2	26.9								
Kentucky						39.7								
Louisiana	173.3	129.8	114.1	51.2	56.2	62.8	54.9							

¹ Exclusive of New York City.² Not available.

Monthly State mortality statistics—Continued

	1928										Corresponding month for—			
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	1927	1926	1925	1924	
DISEASES OF THE RESPIRATORY SYSTEM (97-107)—Continued														
Michigan.....					51.3	41.5	49.3	76.2	107.9					
Nebraska.....				38.9	26.8	27.6	23.3	53.5						
New Jersey.....						45.0	64.0	78.3	95.8					
New York ¹	171.1	170.9	138.7	93.1	42.9	44.2	65.2	82.5		71.6	82.3	103.6	91.1	
Pennsylvania.....				90.4	58.1	51.0	72.8	88.9						
South Dakota.....	117.1	72.6	61.9	60.5										77.5
Virginia.....														
PNEUMONIA, ALL FORMS (100, 101)														
Alabama:														
White.....	162.6	120.2	84.8	48.5	30.1	28.0	29.7	46.3	81.1	73.8	77.1			
Colored.....	203.1	170.4	184.7	69.5	46.1	44.8	72.2	68.6	133.5	105.0	108.7			
California.....	115.8	88.9	74.7	55.7	54.8	43.9								
Connecticut.....	151.7	165.1	183.1	72.4	34.3	34.3	46.7	73.7		59.4	55.1	96.2	76.8	
Indiana.....	151.3	172.2	120.5	58.0	30.0	33.7	44.1	61.6						
Iowa.....	98.4	92.2	80.5	41.1	31.0									
Kansas.....	55.5	96.8	56.5	35.8	21.8	16.0								
Kentucky.....					32.7									
Louisiana.....	160.0	119.2	102.6	41.2	46.5	52.5	41.2							
Michigan.....					37.4	21.3	37.6	61.3	90.1					
Minnesota.....	87.4	102.4	76.1	47.8	30.7	22.9	32.6	51.0	70.2					
Mississippi.....					25.0	23.0	29.9	28.9						
Nebraska.....				32.0	15.1	18.4	23.3	43.5						
New Jersey.....	111.2	104.1	86.3	52.2	39.4	36.4	54.1	68.4	83.7	48.7	57.9	67.9	58.4	
New York ¹	152.8	152.9	126.3	80.2	36.4	35.1	53.4	65.9		59.8	66.5	87.8	73.0	
North Carolina.....	168.7	125.5	93.4	91.5	40.5	24.8	31.5	48.9						
Pennsylvania.....	191.5	166.0	150.0	75.5	45.3	40.4	56.2	72.8		67.7	78.3	92.2	94.1	
South Carolina.....	161.7	124.7	111.2	58.7	44.2	49.9	56.8							
South Dakota.....	100.3	50.1	110.4	55.3										
Tennessee.....	162.8	116.7	104.5	61.3	38.1	39.5	40.4							
Wisconsin.....	83.7	128.5	116.8	99.7	40.7	29.9	38.3	38.2						
Virginia.....								48.7						
DISEASES OF THE DIGESTIVE SYSTEM (108-127)														
Alabama:														
White.....					171.0	136.7	100.4	94.6	72.4					
Colored.....					143.7	147.7	115.8	85.7	57.2					
Iowa.....	65.5	55.6	61.1	63.1	78.6									
Kansas.....	78.3	69.0	81.5	74.3	95.6	138.0								
Kentucky.....					135.6									
Louisiana.....	75.5	91.7	94.2	184.1	123.0	112.3	114.2							
Michigan.....					81.3	95.7	110.5	94.6	84.6					
Minnesota.....						50.2	58.6	64.4	57.6					
Nebraska.....					73.4	88.6	107.0	86.4	59.4					
New Jersey.....	(2)	(2)	(2)	(2)		82.0	101.4	90.7	78.6	68.5				
New York ¹	79.8	72.6	79.5	76.9	68.2	79.8	84.6	73.7		85.1	94.1	105.3	90.6	
Pennsylvania.....					71.7	79.3	94.7	118.3	86.4					
South Dakota.....	70.2	60.5	61.9	60.5					48.7					
Virginia.....														
DIARRHEA AND ENTERITIS UNDER 2 YEARS (113)														
Alabama:														
White.....	5.6	10.9	16.8	77.5	89.7	68.7	62.3	37.1	16.7	23.3	19.1			
Colored.....	9.2	21.8	18.5	59.9	73.8	58.6	53.1	18.5	8.2	17.7	16.3			
California.....	11.9	14.7	22.2	29.4	21.2	25.1								
Connecticut.....	3.6	6.0	4.4	5.5	3.6	13.9	12.1	8.8		20.0	22.7	18.5	26.6	
Indiana.....	9.3	6.1	7.8	7.3	20.0	50.4	47.1	28.2						
Iowa.....	5.8	3.5	3.4	2.5	6.3									
Kansas.....	9.0	8.0	6.4	11.3	22.5	52.0								
Kentucky.....						70.1								
Louisiana.....	11.6	22.5	29.6	51.8	43.5	30.8	26.8							
Michigan.....						14.6	23.9	38.7	25.9	15.1				
Minnesota.....	(2)	(2)	(2)	(2)		(2)	4.3	6.7	6.1	4.9				
Mississippi.....						77.6	35.5	24.5						
Nebraska.....						9.6	5.9	23.4	17.3	10.0				
New Jersey.....	10.2	12.7	11.4	10.2	16.6	29.0	24.5	16.9	14.0	16.6	10.6	18.6	27.3	
New York ¹	10.3	12.4	10.9	13.5	8.0	14.6	20.9	15.2		19.9	27.9	38.5	27.7	

¹ Exclusive of New York City.² Rate previously published was exclusive of infantile diarrhea.³ Rate previously published was for diarrhea of children under 5 years.

Monthly State mortality statistics—Continued

	1928										Corresponding month for—			
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	1927	1926	1925	1924	
DIARRHEA AND ENTERITIS UNDER 2 YEARS (113)—Continued														
North Carolina	10.0	7.0	29.7	119.7	97.8	70.9	44.7	30.9	—	—	—	—	—	—
Pennsylvania	16.1	16.4	16.5	13.5	18.6	32.1	50.7	30.0	—	42.3	58.6	67.5	54.5	
South Carolina	4.8	2.9	38.5	83.5	78.3	43.0	36.6	—	—	—	—	—	—	—
South Dakota	11.7	8.6	1.7	5.2	—	—	—	—	—	—	—	—	—	—
Tennessee	4.7	3.4	8.9	59.8	94.6	80.5	55.9	—	—	42.1	22.9	9.0	—	—
Virginia	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wisconsin	13.6	16.5	15.6	9.5	12.4	8.8	(?)	8.4	4.5	—	—	—	—	—
NEPHRITIS (128, 129)														
Alabama:	—	—	—	—	—	—	—	—	—	—	—	—	—	—
White	75.7	73.9	68.0	80.4	74.3	60.3	73.9	65.2	75.3	77.6	75.6	—	—	—
Colored	91.0	111.8	124.0	113.1	151.6	156.9	137.6	123.9	147.1	84.3	122.2	—	—	—
California	114.7	128.4	109.6	105.2	96.7	93.8	—	—	—	—	—	—	—	—
Connecticut	71.5	73.1	84.6	89.0	67.8	57.6	63.3	60.5	—	—	—	—	—	—
Indiana	85.6	90.0	83.0	76.1	71.2	77.1	84.3	75.6	—	—	—	—	—	—
Iowa	53.8	52.6	52.4	56.1	61.6	—	—	—	—	—	—	—	—	—
Kansas	112.9	114.0	94.3	78.9	75.1	75.7	—	—	—	—	—	—	—	—
Kentucky	—	—	—	—	—	71.0	—	—	—	—	—	—	—	—
Louisiana	123.2	120.4	131.6	99.2	120.2	102.6	93.6	—	—	—	—	—	—	—
Michigan	—	—	—	—	—	61.3	68.2	62.5	68.2	74.7	—	—	—	—
Minnesota	54.6	61.7	54.9	38.0	45.9	45.9	50.5	52.8	39.3	—	—	—	—	—
Mississippi	—	—	—	—	101.9	106.5	81.5	112.4	—	—	—	—	—	—
Nebraska	—	—	—	—	44.9	44.3	44.3	31.1	46.8	—	—	—	—	—
New Jersey	124.8	108.6	114.6	98.7	95.2	84.7	90.4	91.5	101.3	104.8	102.8	89.6	102.6	—
New York ¹	120.0	127.0	121.4	104.2	93.0	94.1	92.6	100.6	—	101.8	108.0	116.9	106.9	—
Pennsylvania	115.0	122.0	125.0	95.6	93.3	94.2	50.7	99.9	—	85.4	100.0	100.0	93.8	—
South Carolina	*108.6	105.7	95.4	*106.4	*111.8	*87.8	*92.7	—	—	—	—	—	—	—
South Dakota	45.2	50.1	46.8	34.6	—	—	—	—	—	94.5	—	—	—	—
Virginia	—	—	—	—	—	—	—	—	—	—	—	—	—	—
PUERPERAL STATE (143-150)														
Alabama:	—	—	—	—	—	—	—	—	—	—	—	—	—	—
White	20.3	18.1	14.7	16.7	14.7	15.4	14.5	19.6	13.0	11.3	12.2	—	—	—
Colored	25.1	31.3	33.0	31.3	34.3	36.9	24.5	23.7	17.7	28.6	13.9	—	—	—
California	10.9	11.8	10.3	9.1	9.8	9.3	—	—	—	—	—	—	—	—
Connecticut	13.1	21.1	8.8	6.0	10.2	8.0	5.3	9.5	—	11.9	7.6	13.9	11.0	—
Indiana	11.5	9.2	13.3	10.8	8.9	11.1	15.3	9.8	—	—	—	—	—	—
Iowa	11.2	15.0	10.7	9.5	4.8	—	—	—	—	—	—	—	—	—
Kansas	17.3	13.3	22.5	12.6	13.5	9.6	—	—	—	—	—	—	—	—
Kentucky	—	—	—	—	6.0	—	—	—	—	—	—	—	—	—
Louisiana	27.2	21.2	22.9	29.3	26.6	19.9	19.3	—	—	—	—	—	—	—
Michigan	—	—	—	—	10.8	12.6	7.7	9.7	10.6	—	—	—	—	—
Minnesota	14.3	13.0	12.1	8.0	7.8	7.8	4.0	5.6	4.0	—	—	—	—	—
Mississippi	—	—	—	—	22.4	23.0	14.3	18.4	—	—	—	—	—	—
Nebraska	—	—	—	—	14.7	13.4	12.5	6.9	10.9	—	—	—	—	—
New Jersey	—	—	—	—	9.6	12.0	10.2	12.6	14.5	—	—	—	—	—
New York ¹	12.0	15.2	12.8	8.5	12.2	9.7	8.9	7.6	—	9.9	6.8	9.0	9.2	—
Pennsylvania	? 6.6	? 6.7	? 7.1	? 5.8	? 5.4	? 4.4	? 4.4	—	—	? 4.4	? 3.9	? 5.5	(?)	—
South Dakota	8.4	8.6	10.0	5.2	—	—	—	—	—	—	—	—	—	—
Tennessee	? 7.1	? 5.3	? 7.5	? 4.4	? 5.6	? 6.0	? 3.9	—	—	14.2	—	—	—	—
Virginia	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CONGENITAL MALFORMATION AND DISEASES OF EARLY INFANCY (159-163)														
Alabama:	—	—	—	—	—	—	—	—	—	—	—	—	—	—
White	69.4	57.9	79.2	73.0	61.0	63.1	73.0	63.7	46.4	70.8	71.5	—	—	—
Colored	92.3	80.4	83.1	68.6	60.7	93.0	77.7	65.0	58.0	72.1	69.3	—	—	—
California	53.0	50.7	57.4	49.7	53.0	48.8	—	—	—	—	—	—	—	—
Iowa	61.1	66.6	60.6	66.1	65.5	—	—	—	—	—	—	—	—	—
Kansas	65.4	56.4	46.8	40.4	51.3	52.0	—	—	—	—	—	—	—	—
Louisiana	70.0	66.1	64.6	49.3	71.2	65.8	75.5	—	—	—	—	—	—	—
Mississippi	—	—	—	—	55.2	44.0	47.6	49.3	—	—	—	—	—	—
Nebraska	—	—	—	—	59.6	51.8	53.5	57.9	68.6	—	—	—	—	—
New York ¹	69.4	66.5	72.4	72.2	69.6	62.7	60.0	58.9	—	58.1	67.0	72.8	76.0	—
Pennsylvania	* 35.1	* 37.4	* 37.7	* 30.8	* 31.1	* 30.4	* 27.5	—	—	* 31.6	* 33.9	* 37.2	(?)	—
South Dakota	82.0	60.5	56.9	57.0	—	—	—	—	—	55.8	—	—	—	—
Virginia	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹ Exclusive of New York.² Not available.³ Reported as intestinal diarrheas of children under 1 year.⁴ Reported as kidney diseases.⁵ Rate per 1,000 total births.⁶ Reported as puerperal septicemia.⁷ Rate per 1,000 live births.

COURT DECISIONS RELATING TO PUBLIC HEALTH

Ophthalmia neonatorum law construed.—(North Carolina Supreme Court; Covington *v.* Wyatt, 145 S. E. 673; decided December 12, 1928.) An action for damages was brought against a physician for injury to an infant's eyes caused by the use therein of a 30 per cent solution of silver nitrate. The defendant physician was employed to attend at the birth of plaintiff, the birth taking place in a hospital of the mother's own selection. The nurse assisting at the birth was an employee of the hospital. After the birth the nurse inquired of the defendant whether she should put drops into the baby's eyes, and, receiving an affirmative answer, instilled, while the defendant held open the baby's eyes, drops of a silver nitrate solution obtained from a medicine cabinet maintained by the hospital. The solution used was one of approximately 30 per cent.

A State law relating to the prevention of blindness in infants provided, in one section (sec. 7182, Consolidated Statutes), that it was unlawful for any physician or midwife practicing midwifery to neglect or otherwise fail to instill or have instilled into the eyes of a newborn baby, immediately upon its birth, two drops of a solution prescribed or furnished by the State board of health. The solution prescribed contained 1 per cent of silver nitrate. Other sections of the statute read as follows:

SEC. 7185. It shall be the duty of physicians, midwives, or other persons in attendance upon a case of childbirth in a maternity home, hospital, public or charitable institution, in every infant's eyes, within two hours after birth, to use the prophylactic against inflammation of the eyes of the newborn specified in this article, * * *

SEC. 7186. Whoever being a physician, surgeon, midwife, obstetrician, nurse, manager, or person in charge of a maternity home or hospital, parent, relative, or person attendant upon or assisting at the birth of any infant violates any of the provisions of this article shall be deemed guilty of a misdemeanor, and upon conviction thereof be fined in a sum not less than \$10 nor more than \$50, and, if possessed of the required amount of property, subject to suit by the parent or guardian of the child for damages resulting to the child; and if such a suit shall be brought the establishment of the fact that the physician or midwife did not place the drops in the child's eyes within two hours of its birth shall be accepted as *prima facie* evidence of the physician's or midwife's responsibility for the injury of the disease to the eye or eyes of the child. * * *

The plaintiff contended that these statutory provisions imposed liability upon the defendant without regard to the question of his negligence. In other words, it was contended that the defendant's duty was absolute. The defendant urged the interpretation that his duty was not absolute but relative, and that neither the letter nor the spirit of the statute authorized a civil action for damages resulting from an effort to obey the law. The supreme court took the view that the duty enjoined was not absolute, saying:

The statutes contemplate diverse contingencies. As we construe them, some of the provisions impose duties in cases of childbirth in the maternity ward of a

hospital; others impose duties when the birth occurs elsewhere. It would seem that the latter class of cases is within the purview of section 7182. * * * The duty of trying to comply with the statutes may be absolute; but this is not equivalent to saying that the statute imposes upon a physician the absolute and unqualified duty of seeing that the solution contains exactly one per cent of silver nitrate. In practical effect the duty, if held to be absolute in this sense, would require of the physician the necessity in every case of preparing his own solution or of analyzing that which should be procured from the most competent and reputable sources. This, evidently, is not the object of the law.

The unlawful act denounced in section 7182 is the delinquency of the physician or midwife; but in section 7185 a duty is prescribed, not only for them, but for other persons in attendance upon childbirth in a maternity home or hospital. By section 7186 any physician, nurse, or other person attendant upon or assisting at the birth of an infant, who violates the provisions of article 14, shall be deemed guilty of a misdemeanor and may be subject to a suit for damages. In the last two sections the prescribed duty is required indiscriminately of the physician, the nurse, and others. But the duty is no more absolute here than under section 7182; the word "absolute" signifying certainty in administering the precise solution prescribed by the State board of health. If the prescribed duty is not absolute in its terms, liability in damages will not necessarily be inferred from failure to instill the prescribed solution, where an effort is made in good faith to comply with the statutes. * * *

The plaintiff also alleged negligence on the part of the defendant. The court, however, after reviewing the evidence, stated that "as the hospital undertook to furnish a nurse for the mother, and medicines, appliances, and instruments, there is no evidence which discloses such culpability or malpractice on the part of the defendant as should subject him to liability in damages."

A judgment of nonsuit, entered by the trial court, was affirmed.

Collection of garbage by city held to be a governmental function.—(Oklahoma Supreme Court; Oklahoma City *v.* Baldwin, 272 P. 453; decided April 3, 1928.) An action to recover damages was brought against the city of Oklahoma City, it being alleged that property damage and personal injury had been sustained by reason of one of the garbage trucks of the city health department having negligently hit the car of the plaintiff. A recovery was had in the trial court, and the city appealed. There was thus presented to the supreme court for decision the question as to whether or not a city, in collecting its garbage, was acting in a governmental or corporate capacity. The court decided that the city, when collecting garbage, was discharging a governmental function, in the performance of which the city was not liable for the negligent acts of its agents.

The contention was made that, because the city charged a fee for the removal of garbage, it was acting in its corporate capacity, but the court stated that it did not think the fact that there was a charge necessarily made the removal a nongovernmental function so as to render the city liable.

DEATHS FROM INFLUENZA AND PNEUMONIA IN LARGE CITIES

Deaths from influenza and pneumonia in 78 large cities during eight weeks ended January 19, 1929. (From the Weekly Health Index, January 23, 1929, issued by the Bureau of the Census, Department of Commerce)

INFLUENZA DEATHS

City	Week ended—							
	Dec. 1, 1928	Dec. 8, 1928	Dec. 15, 1928	Dec. 22, 1928	Dec. 29, 1928	Jan. 5, 1929	Jan. 12, 1929	Jan. 19, 1929
Total	203	291	477	766	1,081	1,424	1,513	1,995
Akron	0	0	2	18	14	5	6	3
Albany	0	2	1	1	3	4	5	11
Atlanta	2	10	10	33	51	31	46	18
Baltimore	5	4	6	8	17	31	46	37
Birmingham	0	2	4	—	11	60	108	—
Boston	2	0	2	2	3	4	19	16
Bridgeport	1	2	0	0	0	3	2	15
Buffalo	0	0	—	6	4	10	22	7
Cambridge	0	0	—	0	—	0	0	3
Camden	0	0	4	—	4	4	10	8
Canton	0	3	—	1	2	27	13	2
Chicago	10	10	33	80	104	67	55	39
Cincinnati	2	0	6	5	9	45	40	39
Cleveland	1	2	2	25	54	65	65	46
Columbus	1	0	0	10	22	33	46	25
Dallas	1	2	0	—	18	25	21	18
Dayton	1	1	—	0	2	3	5	8
Denver	15	28	58	50	25	19	15	14
Des Moines	0	2	6	19	13	10	0	0
Detroit	4	3	4	22	64	90	73	32
Duluth	0	2	5	8	2	4	4	0
El Paso	4	1	4	7	10	29	18	13
Erie	1	0	—	—	3	10	23	14
Fall River	0	1	0	0	—	5	8	3
Flint	0	0	2	—	5	19	16	10
Fort Worth	2	1	3	3	4	23	37	23
Grand Rapids	1	1	11	16	18	6	10	2
Houston	0	1	2	5	12	17	13	10
Indianapolis	0	3	6	16	15	18	16	5
Jersey City	0	2	2	3	2	3	7	12
Kansas City, Kans	0	1	—	23	8	—	0	2
Kansas City, Mo	1	12	35	20	—	9	4	7
Knoxville	1	2	1	11	14	15	18	—
Los Angeles	55	70	85	45	32	25	17	—
Louisville	—	—	—	1	2	7	8	10
Lowell	1	0	0	1	0	0	0	0
Lynn	0	0	—	1	2	—	2	1
Memphis	1	2	2	3	11	42	49	—
Milwaukee	0	2	3	10	10	23	36	19
Minneapolis	2	2	2	21	24	27	20	8
Nashville	1	2	—	—	8	13	35	23
New Bedford	0	0	0	—	—	1	—	—
New Haven	0	1	2	0	1	1	2	2
New Orleans	9	5	12	37	53	84	53	30
New York	11	15	16	25	46	55	127	154
Newark, N. J.	0	0	1	2	3	12	22	20
Oakland	11	3	1	8	7	5	5	6
Oklahoma City	3	—	—	2	3	11	10	9
Omaha	0	0	0	—	—	—	—	—
Paterson	1	1	0	2	0	7	10	8
Philadelphia	4	14	16	34	47	50	72	55
Pittsburgh	4	5	17	64	144	177	98	51
Portland, Oreg.	4	1	9	9	11	10	8	3
Providence	1	0	0	1	0	2	5	6
Richmond	0	1	3	0	4	17	20	18
Rochester	0	0	0	1	0	3	6	6
St. Louis	0	1	0	1	5	9	10	9
St. Paul	0	0	2	3	13	12	13	6
Salt Lake City	14	18	13	12	3	3	2	2
San Antonio	3	6	6	4	8	11	16	19
San Diego	6	11	16	8	6	3	5	3
San Francisco	7	9	9	10	9	7	5	8
Schenectady	2	0	0	1	0	4	5	8

¹ The total number of deaths from influenza for the 62 cities from which complete returns were received was 1,275 for the week ended Jan. 12, 1929, and 931 for the week ended Jan. 19.

Deaths from influenza and pneumonia in 78 large cities during eight weeks ended January 19, 1929—Continued

INFLUENZA DEATHS—Continued

City	Week ended—							
	Dec. 1, 1928	Dec. 8, 1928	Dec. 15, 1928	Dec. 22, 1928	Dec. 29, 1928	Jan. 5, 1929	Jan. 12, 1929	Jan. 19, 1929
Seattle.....	6	5	15	15	17	15	11	10
Somerville.....	0	0		0				
Spokane.....	*0	6	8	11	9	7	3	3
Springfield, Mass.....	0	0	1	1	0	1	1	1
Syracuse.....	0	0	0	3	6	9	12	3
Tacoma.....	0	0	1	3	10	4	1	3
Toledo.....	2	5	21	27	39	16	20	17
Trenton.....	1	1	0	2	0	6	7	5
Utica.....	1	0	1	0	0	3	2	
Washington, D. C.....	0	4	7	3	7	10	25	11
Waterbury.....	1	0	0	0	0	5	0	0
Wilmington, Del.....	0	0	0	1	4	4	3	1
Worcester.....	0	0		0				
Yonkers.....	0	0	1	0	9	2	2	3
Youngstown.....					15	22	29	12

PNEUMONIA DEATHS

Total.....	853	1,009	1,226	1,645	1,981	2,469	12,564	12,274
Akron.....	5	8	8	65	38	32	31	10
Albany.....	8	8	4	9	11	12	15	16
Atlanta.....	10	8	14	26	28	19	18	15
Baltimore.....	25	35	37	27	51	65	94	87
Birmingham.....	10	9	9	4	7	27	44	26
Boston.....	17	24	24	36	29	39	52	80
Bridgeport.....	1	3	3	2	1	6	12	15
Buffalo.....	15	15	24	33	36	47	65	63
Cambridge.....	2	1	3	2	6	7	7	13
Camden.....	4	5	12	8	4	25	23	8
Canton.....	5	3	6	15	12	19	8	7
Chicago.....	70	85	129	179	226	208	153	125
Cincinnati.....	14	13	11	13	26	63	56	41
Cleveland.....	14	17	19	35	60	106	124	91
Columbus.....	4	6	5	12	26	34	28	17
Dallas.....	4	2	1	4	21	24	27	19
Dayton.....	0	7	3	9	13	13	18	12
Denver.....	12	22	51	28	22	16	14	15
Des Moines.....	0	4	2	25	6	8	7	10
Detroit.....	38	39	35	57	112	160	134	75
Duluth.....	1	5	1	2	0	1	3	2
El Paso.....	2	5	6	11	6	6	7	
Erie.....	4	2	3	0	5	3	11	4
Fall River.....	0	3	1	5	7	3	8	13
Flint.....	9	11	2	4	12	17	26	16
Fort Worth.....	1	3	3	7	11	12	13	6
Grand Rapids.....	2	5	5	8	8	3	5	3
Houston.....	4	8	12	17	20	46	31	20
Indianapolis.....	14	19	33	43	48	44	27	18
Jersey City.....	6	8	12	18	17	23	28	40
Kansas City, Kans.....	5	5	31	12	6	12	7	8
Kansas City, Mo.....	15	15	29	52	12	23	19	10
Knoxville.....	1	4	1	18	9	18	26	24
Los Angeles.....	57	69	44	36	33	28	26	
Louisville.....	7	14	10	9	13	31	39	39
Lowell.....	1	2	4	4	2	5	4	12
Lynn.....	2	0	3	2	6	1	3	6
Memphis.....	3	17	5	10	12	25	17	
Milwaukee.....	8	8	4	22	36	40	43	26
Minneapolis.....	6	15	8	14	23	21	33	17
Nashville.....	5	10	3	8	4	3	9	12
New Bedford.....	2	4	3	1	3	6	11	15
New Haven.....	3	1	6	6	4	7	9	11
New Orleans.....	12	15	16	22	44	62	31	18
New York.....	157	173	202	212	223	302	437	565
Newark, N. J.....	8	14	10	12	19	32	56	38
Oakland.....	11	6	8	5	6	11	5	7
Oklahoma City.....	2	6	8	7	9	18	37	25

¹ The total number of deaths from pneumonia for the 62 cities from which complete returns were received was 2,356 for the week ended January 12, 1929, and 2,172 for the week ended January 19.

Deaths from influenza and pneumonia in 78 large cities during eight weeks ended January 19, 1929—Continued

PNEUMONIA DEATHS—Continued

City	Week ended—							
	Dec. 1, 1928	Dec. 8, 1928	Dec. 15, 1928	Dec. 22, 1928	Dec. 29, 1928	Jan. 5, 1929	Jan. 12, 1929	Jan. 19, 1929
Omaha.....	7	10	34	38	41	19	6	15
Paterson.....	2	3	3	4	2	12	16	15
Philadelphia.....	54	70	83	132	134	207	180	157
Pittsburgh.....	30	16	40	95	149	154	93	62
Portland, Oreg.....	3	4	11	10	18	20	15	8
Providence.....	8	7	6	7	8	9	10	24
Richmond.....	5	4	4	4	14	14	12	8
Rochester.....	7	3	7	5	8	8	7	8
St. Louis.....	23	22	35	33	66	72	76	61
St. Paul.....	6	5	10	20	20	25	16	11
Salt Lake City.....	5	6	7	4	1	1	4	2
San Antonio.....	10	5	10	8	12	12	10	—
San Diego.....	5	4	8	4	3	6	8	4
San Francisco.....	19	12	18	14	17	19	11	20
Schenectady.....	1	2	2	2	2	3	8	—
Seattle.....	5	10	9	13	21	13	13	9
Somerville.....	2	2	3	1	5	7	2	7
Spokane.....	4	4	12	9	9	4	5	—
Springfield, Mass.....	5	6	3	4	9	10	17	8
Syracuse.....	7	9	4	3	10	17	24	16
Tacoma.....	1	3	6	3	2	4	5	—
Toledo.....	8	8	7	17	27	18	14	5
Trenton.....	2	1	4	7	8	14	23	8
Utica.....	4	3	3	8	11	11	15	—
Washington, D. C.....	8	11	10	19	19	20	37	53
Waterbury.....	3	3	1	2	2	0	2	—
Wilmington, Del.....	0	4	3	4	5	11	9	15
Worcester.....	2	3	0	0	2	5	6	—
Yonkers.....	6	5	4	2	7	11	9	15
Youngstown.....	5	3	6	17	19	9	10	12

Blank spaces indicate that no report has been received.

DEATHS DURING WEEK ENDED JANUARY 19, 1929

Summary of information received by telegraph from industrial insurance companies for the week ended January 19, 1929, and corresponding week of 1928. (From the Weekly Health Index, January 23, 1929, issued by the Bureau of the Census, Department of Commerce)

	Week ended Jan. 19, 1929	Corresponding week, 1928
Policies in force.....	72,674,995	70,023,932
Number of death claims.....	22,792	14,327
Death claims per 1,000 policies in force, annual rate.....	16.4	10.7

Deaths from all causes in certain large cities of the United States during the week ended January 19, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1928. (From the Weekly Health Index, January 23, 1929, issued by the Bureau of the Census, Department of Commerce)

City	Week ended Jan. 19, 1929		Annual death rate per 1,000, corre- sponding week, 1928	Deaths under 1 year		Infant mort- ality rate, week ended Jan. 19, 1929 ¹
	Total deaths	Death rate ¹		Week ended Jan. 19, 1929	Corre- sponding week, 1928	
Total (65 cities).....	10,796	18.9	13.4	977	751	1.85
Akron.....	57			12	4	124
Albany ⁴	50	21.7	20.4	8	3	188
Atlanta.....	95	19.5	17.2	13	14	135
White.....	46			8	7	
Colored.....	49	(²)	(²)	5	7	
Baltimore ⁴	366	23.0	15.9	29	29	33
White.....	285			20	19	80
Colored.....	81	(²)	(²)	9	10	143
Birmingham.....	159	37.4	20.9	18	11	163
White.....	92			10	5	150
Colored.....	77	(²)	(²)	8	6	183
Boston.....	352	23.0	16.6	30	27	83
Bridgeport.....	73			14	3	242
Buffalo.....	230	23.5	13.8	23	16	99
Cambridge.....	45	18.7	12.9	5	4	90
Camden.....	42	16.2	13.9	4	5	69
Canton.....	25	11.2	10.3	3	5	71
Chicago ⁴	955	15.8	11.3	79	68	70
Cincinnati.....	233			24	9	140
Cleveland.....	382	19.8	10.1	35	20	103
Columbus.....	132	23.1	15.4	7	9	66
Dallas.....	101	24.2	13.2	14	4	
White.....	84			11	3	
Colored.....	17	(²)	(²)	3	1	
Dayton.....	51	14.5	13.6	3	5	48
Denver.....	114	20.3	20.3	8	9	77
Des Moines.....	43	14.8	12.4	2	6	36
Detroit.....	413	15.7	10.4	53	38	85
Duluth.....	26	11.6	11.6	1	2	24
El Paso.....	42	18.6	16.9	13	7	
Erie.....	55			5	5	162
Fall River ⁴	64	24.9	9.3	3	5	56
Flint.....	43	15.1	6.3	8	4	97
Fort Worth.....	66	20.2	9.2	5	2	
White.....	60			4	2	
Colored.....	6	(²)	(²)	1	0	
Grand Rapids.....	27	8.6	9.2	3	5	45
Houston.....	102			11	6	
White.....	75			7	4	
Colored.....	27	(²)	(²)	4	2	
Indianapolis.....	108	14.8	15.3	12	7	96
White.....	86			9	7	83
Colored.....	22	(²)	(²)	3	0	179
Jersey City.....	141	22.7	15.0	13	10	100
Kansas City, Kans.....	35	15.5	13.3	5	1	111
White.....	22			4	0	101
Colored.....	13	(²)	(²)	1	1	179
Kansas City, Mo.....	120	16.0	14.8	9	6	76
Knoxville.....	68	33.7	18.9	6	5	131
White.....	51			4	5	98
Colored.....	17	(²)	(²)	2	0	42
Los Angeles.....	256			18	25	53
Louisville.....	167	26.5	13.7	16	11	130
White.....				8		
Colored.....		(²)	(²)	3		
Lowell.....	47			4	2	91
Lynn.....	28	13.9	11.4	3	3	82
Memphis.....	95	26.1	21.2	15	3	177
White.....	50			6	1	114
Colored.....	45	(²)	(²)	9	2	281
Milwaukee.....	179	17.2	10.6	21	12	92
Minneapolis.....	126	14.5	11.0	10	12	62
Nashville.....	89	33.3	19.5	8	4	129
White.....	61			5	2	109
Colored.....	28	(²)	(²)	3	2	189
New Bedford.....	55			8	5	172
New Haven.....	52	14.5	10.0	1	1	15

See footnotes at end of table.

February 1, 1929

Deaths from all causes in certain large cities of the United States during the week ended January 19, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1928—Continued

City	Week ended Jan. 19, 1929		Annual death rate per 1,000, corre- sponding week, 1928	Deaths under 1 year		Infant mor- tality rate, week ended Jan. 19, 1929
	Total deaths	Death rate		Week ended Jan. 19, 1929	Corre- sponding week, 1928	
New Orleans.....	199	24.2	22.5	11	7	55
White.....	132			3	4	21
Colored.....	67	(*)	(*)	8	3	135
New York.....	2,308	20.1	13.6	233	182	95
Bronx Borough.....	302	16.6	10.8	27	14	80
Brooklyn Borough.....	789	17.9	12.0	90	70	91
Manhattan Borough.....	809	26.8	19.1	89	83	109
Queens Borough.....	238	14.6	9.5	20	11	82
Richmond Borough.....	80	27.8	16.3	7	4	127
Newark, N. J.....	175	19.3	10.9	13	9	69
Oakland.....	81	15.5	12.4	6	5	67
Oklahoma City.....	70			8	5	100
Omaha.....	72	16.9	14.5	6	4	70
Paterson.....	52	18.8	13.0	5	2	88
Philadelphia.....	709	18.0	13.1	59	40	84
Pittsburgh.....	241	18.7	13.5	21	14	72
Portland, Oreg.....	77			5	2	57
Providence.....	89	16.3	13.7	9	5	79
Richmond.....	88	23.7	12.9	5	6	70
White.....	56			0	5	0
Colored.....	32	(*)	(*)	5	1	205
Rochester.....	91	14.5	13.1	9	8	76
St. Louis.....	312	19.2	16.0	13	19	44
St. Paul.....	65			2	8	21
Salt Lake City.....	42	15.9	12.1	2	0	31
San Antonio.....	110	26.4	15.6	16	12	
San Diego.....	49	21.4	20.1	1	3	19
San Francisco.....	188	16.8	15.0	5	7	32
Schenectady.....	43	24.1	12.9	4	4	127
Seattle.....	92	12.6	10.0	6	5	64
Somerville.....	32	16.3	10.2	3	4	108
Spokane.....	37	17.7	9.6	1	1	26
Springfield, Mass.....	43	15.0	12.6	3	1	50
Syracuse.....	90	23.6	10.0	5	2	60
Tacoma.....	25	11.8	12.8	0	3	0
Toledo.....	94	15.7	13.4	14	6	131
Trenton.....	54	20.3	11.7	4	3	72
Washington, D. C.....	225	21.3	15.3	23	16	135
White.....	133			9	6	76
Colored.....	92	(*)	(*)	14	10	265
Waterbury.....	18			4	2	102
Wilmington, Del.....	44	17.9	15.1	1	4	26
Worcester.....	57	15.1	14.3	2	0	25
Yonkers.....	47	20.3	9.9	3	2	70
Youngstown.....	59	17.7	13.2	8	4	115

¹ Annual rate per 1,000 population.² Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.³ Data for 72 cities.⁴ Deaths for week ended Friday.

⁵ In the cities for which deaths are shown by color the colored population in 1920 constituted the following percentages of the total population: Atlanta, 31; Baltimore, 15; Birmingham, 39; Dallas, 15; Fort Worth, 14; Houston, 25; Indianapolis, 11; Kansas City, Kans., 14; Knoxville, 15; Louisville, 17; Memphis, 38; Nashville, 30; New Orleans, 26; Richmond, 32; and Washington, D. C., 25.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

Reports for Weeks Ended January 19, 1929, and January 21, 1928

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended January 19, 1929, and January 21, 1928

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928
New England States:								
Maine.....	8	2	2,134	2	218	54	2	0
New Hampshire.....	2		170		61		0	0
Vermont.....	4		347		24	4	0	0
Massachusetts.....	116	103	2,277	10	532	1,496	0	3
Rhode Island.....	13	19	799	1	51	18	0	0
Connecticut.....	34	27	3,359	2	283	139	2	0
Middle Atlantic States:								
New York.....	259	447	1,3,249	1,24	843	991	29	2
New Jersey.....	128	171	1,693	16	157	265	7	1
Pennsylvania.....	165	286			1,003	706	9	2
East North Central States:								
Ohio.....	42	112	1,138	42	299	321	2	1
Indiana.....	22	40	336	48	141	56	0	0
Illinois.....	128	202	541	46	252	46	9	10
Michigan.....	79	98	1,368	12	95	438	30	1
Wisconsin.....	22	31	2,483	99	154	140	12	4
West North Central States:								
Minnesota.....	20	31	405	2	131	4	2	4
Iowa.....	4	9				76	3	1
Missouri.....	55	54	1,193	10	169	63	13	.3
North Dakota.....	7	1	172		28	8	9	1
South Dakota.....	1		12	10	17	14	0	0
Nebraska.....	27	10	243		21	5	1	3
Kansas.....	18	22	347	4	24	26	3	1
South Atlantic States:								
Delaware.....	1	2	47	3	4	37	0	0
Maryland ¹	27	29	5,579	60	56	345	1	1
District of Columbia.....	9	32	407	1	4	5	0	0
West Virginia.....	25	16	5,733	27	88	71	2	0
North Carolina.....	51	73			23	3,418	0	0
South Carolina.....	20	30	4,123	1,201	5	1,347	0	0
Georgia.....	14	12	3,833	190	97	65	1	0
Florida.....	7	10	713	8	13	6	1	0

¹ New York City only.

² Week ended Friday.

*Cases of certain communicable diseases reported by telegraph by State health officers
for weeks ended January 19, 1929, and January 21, 1928—Continued*

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928
East South Central States:								
Kentucky	10	9	2,734	31		135	0	0
Tennessee	6	21	4,495	137	5	647	1	1
Alabama	31	38	12,444	351	114	210	3	2
Mississippi	13	6	4,658					
West South Central States:								
Arkansas	24	11	3,456	169	29	206	2	0
Louisiana	14	27	7,856	37	57	48	2	1
Oklahoma ²	43	44	7,836	266	10	147	23	1
Texas	46	60	1,886	73	20	35	3	0
Mountain States:								
Montana	3	4	24		130	4	1	5
Idaho			10		8	2	6	3
Wyoming		1	404		2	3	0	2
Colorado	7	13	182	1	12	29	10	8
New Mexico	5	8	120		3	62	1	0
Arizona	2	3	11		13	19	11	1
Utah ²	3	8	4	2	1	1	5	3
Pacific States:								
Washington	15	7	42		48	243	5	6
Oregon	11	19	284	35	44	34	2	1
California	73	132	455	41	32	70	4	4

Division and State	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928
New England States:								
Maine	0	0	23	40	0	0	0	4
New Hampshire	0	0	15	34	0	0	0	0
Vermont	0	0	5	7	0	0	0	0
Massachusetts	0	3	255	383	0	3	3	5
Rhode Island	0	0	27	49	0	0	0	0
Connecticut	1	1	36	149	0	20	0	2
Middle Atlantic States:								
New York	1	4	464	689	0	9	15	22
New Jersey	0	0	143	243	0	0	2	6
Pennsylvania	1	2	378	587	0	0	6	15
East North Central States:								
Ohio	0	4	195	313	36	17	2	12
Indiana	0	1	140	97	72	120	0	3
Illinois	2	2	362	416	104	27	7	19
Michigan	0	1	301	274	26	58	4	5
Wisconsin	1	1	167	208	6	29	2	1
West North Central States:								
Minnesota	1	0	123	150	0	2	0	4
Iowa	0	0	113	92	32	73	0	1
Missouri	0	3	74	78	46	52	2	2
North Dakota	0	0	27	37	0	5	0	1
South Dakota	0	0	22	63	30	10	0	1
Nebraska	0	0	85	79	52	37	1	1
Kansas	0	0	107	179	73	74	2	1
South Atlantic States:								
Delaware	0	0	3	8	0	0	0	0
Maryland ²	0	0	62	80	2	0	2	7
District of Columbia	0	0	22	29	0	0	0	0
West Virginia	1	2	24	67	7	26	5	6
North Carolina	0	0	2	80	13	175	1	2
South Carolina	1	6	15	23	0	15	2	0
Georgia	0	0	16	19	0	0	0	9
Florida	0	0	7	9	1	7	1	5
East South Central States:								
Kentucky	0	0	43	37	2	28	2	0
Tennessee	0	0	11	17	1	21	1	11
Alabama	0	1	26	22	1	8	0	7
Mississippi	0	0	5	16	0	15	2	1

² Week ended Friday.

Figures for 1929 are exclusive of Oklahoma City and Tulsa, and for 1928 are exclusive of Tulsa.

*Cases of certain communicable diseases reported by telegraph by State health officers
for weeks ended January 19, 1929, and January 21, 1928—Continued*

Division and State	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928	Week ended Jan. 19, 1929	Week ended Jan. 21, 1928
West South Central States:								
Arkansas.....	0	0	22	9	3	14	1	3
Louisiana.....	0	0	32	13	5	20	8	9
Oklahoma ¹	0	0	33	27	37	142	0	18
Texas.....	0	0	31	56	40	23	2	4
Mountain States:								
Montana.....	0	1	35	39	10	32	0	1
Idaho.....	0	0	12	27	19	3	5	0
Wyoming.....	0	0	5	26	9	2	0	0
Colorado.....	0	0	17	127	14	23	1	2
New Mexico.....	0	0	12	23	2	1	1	2
Arizona.....	0	0	4	4	1	0	0	3
Utah ¹	0	0	26	9	3	17	0	0
Pacific States:								
Washington.....	0	2	38	64	76	51	4	6
Oregon.....	0	10	32	18	47	46	2	5
California.....	1	6	378	202	41	30	3	4

¹ Week ended Friday.

¹ Figures for 1929 are exclusive of Oklahoma City and Tulsa, and for 1928 are exclusive of Tulsa.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Menin- go-coc- cus menin- gitis	Diph- theria	Influ- enza	Malaria	Meas- lies	Pellagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
<i>October, 1928</i>										
Florida.....	1	61	21	206	14	9	3	26	1	15
<i>November, 1928</i>										
Florida.....	2	67	62	164	9	2	2	45	0	14
New Hampshire.....	10	51	-----	-----	-----	-----	0	94	0	0
Wyoming.....	2	19	81	-----	6	-----	0	86	18	0
<i>December, 1928</i>										
Iowa.....	2	65	3,615	-----	10	-----	1	377	171	5
Maryland.....	1	147	2,722	-----	152	-----	4	300	1	16
New Hampshire.....	11	82	-----	-----	-----	-----	0	110	0	4
New Jersey.....	27	601	1,785	1	420	-----	2	501	0	16
New York.....	108	1,065	-----	5	3,205	-----	18	1,691	3	61
Rhode Island.....	2	78	40	-----	235	-----	2	101	0	0
West Virginia.....	141	10,565	-----	-----	321	-----	5	244	120	31

<i>October, 1928</i>			<i>November, 1928</i>		
	Cases	Chicken pox:		Cases	
Florida:			Florida:		
Chickens pox.....	8	Florida.....		5	
Dengue.....	22	Wyoming.....		140	
Dysentery.....	3	Dengue:			
Lethargic encephalitis.....	2	Florida.....		7	
Mumps.....	16	Dysentery:			
Paratyphoid fever.....	2	Florida.....		10	
Typhus fever.....	1	German measles:			
Whooping cough.....	8	Wyoming.....		1	

	Cases	Paratyphoid fever:	Cases
Mumps:			
Florida.....	20	New Jersey.....	2
Wyoming.....	33	New York.....	3
Typhus fever:		Puerperal septicemia:	
Florida.....	1	New York.....	11
Whooping cough:		Rabies in animals:	
Florida.....	9	Maryland.....	3
Wyoming.....	2	New York.....	15
		Rhode Island.....	14
		Rabies in man:	
		New York.....	2
December, 1928		Septic sore throat:	
Anthrax:		Iowa.....	6
New Jersey.....	3	Maryland.....	11
Chicken pox:		New York.....	51
Iowa.....	341	Rhode Island.....	3
Maryland.....	99		
New Jersey.....	1,471	Tetanus:	
New York.....	3,310	Maryland.....	2
Rhode Island.....	77	New York.....	5
West Virginia.....	453	Trachoma:	
Dysentery:		New York.....	2
Maryland.....	9	Rhode Island.....	1
New York.....	6	Trichinosis:	
German measles:		New Jersey.....	2
Maryland.....	6	Tularaemia:	
New Jersey.....	41	Maryland.....	3
New York.....	84	Typhus fever:	
Rhode Island.....	2	New York.....	2
Impetigo contagiosa:		Undulant fever:	
Maryland.....	4	Iowa.....	9
Lead poisoning:		Maryland.....	2
New Jersey.....	5	New York.....	1
Lethargic encephalitis:		Vincent's angina:	
Iowa.....	4	Iowa.....	4
Maryland.....	3	Maryland.....	7
New York.....	28	New York.....	83
Mumps:		Whooping cough:	
Iowa.....	350	Iowa.....	96
Maryland.....	285	Maryland.....	302
New York.....	1,145	New Jersey.....	569
Rhode Island.....	36	New York.....	1,525
Ophthalmia neonatorum:		Rhode Island.....	42
Maryland.....	6	West Virginia.....	95
New Jersey.....	4		
New York.....	4		

Number of Cases of Certain Communicable Diseases Reported for the Month of November, 1928, by State Health Officers

State	Chick-en pox	Diph-theria	Measles	Mumps	Scarlet fever	Small-pox	Tuber-cu-losis	Ty-phi-od fever	Whoop-ing cough
Maine.....	192	30	479	143	98	51	21	10	82
New Hampshire.....		9			94	0		0	
Vermont.....	139	8	117	183	81	4	16	6	101
Massachusetts.....	935	359	1,620	232	769	2	526	30	425
Rhode Island.....	44	97	174	1	71	0	33	4	25
Connecticut.....	409	106	326	225	145	7	117	6	161
New York.....	2,254	842	1,935	757	1,124	1	1,711	162	1,269
New Jersey.....	1,171	566	379		363	1	377	31	446
Pennsylvania.....	4,100	936	2,733	1,576	1,346	0	575	123	2,134
Ohio.....	2,664	484	724	191	957	94	734	66	968
Indiana ¹									
Illinois.....	1,541	1,037	786	263	1,245	110	842	84	469
Michigan.....	1,414	395	135	333	888	68	527	39	1,181
Wisconsin.....	2,310	110	398	309	674	90	233	10	726

¹ Report not received at time of going to press.

Number of cases of certain communicable diseases reported for the month of November, 1928, by State health officers—Continued

State	Chick-en pox	Diph-theria	Measles	Mumps	Scarlet fever	Small-pox	Tuber-culosis	Ty-phoid fever	Whoop-ing cough
Minnesota.....	1,517	132	53	—	472	8	185	9	264
Iowa.....	330	68	7	237	344	181	39	8	87
Missouri.....	301	288	202	30	391	38	210	87	231
North Dakota.....	101	57	22	2	156	4	24	26	50
South Dakota.....									
Nebraska.....	151	125	12	11	229	70	20	7	33
Kansas.....	776	143	28	181	447	106	78	24	231
Delaware.....	7	4	9	7	17	0	4	9	20
Maryland.....	436	171	137	125	224	0	219	54	289
District of Columbia.....	62	219	10	—	57	0	84	5	110
Virginia.....	428	472	168	—	402	1	160	35	391
West Virginia.....	434	151	172	—	278	26	41	60	70
North Carolina.....	432	859	166	—	643	31	—	53	242
South Carolina.....	86	651	18	9	87	7	111	88	177
Georgia.....	29	135	117	7	180	4	15	33	29
Florida.....	5	67	9	20	45	0	38	14	9
Kentucky ¹									
Tennessee.....	149	205	2	10	235	7	129	106	58
Alabama.....	71	538	74	16	212	17	270	80	50
Mississippi.....	609	222	286	266	138	1	192	110	608
Arkansas.....	61	96	47	57	91	4	10	62	14
Louisiana.....	14	127	169	2	110	53	155	53	11
Oklahoma ⁴	89	378	27	9	194	82	45	147	38
Texas ¹									
Montana.....	297	12	215	19	143	90	11	7	20
Idaho.....	35	13	14	—	39	67	—	3	1
Wyoming.....	140	19	5	33	86	18	1	0	2
Colorado.....	380	99	30	116	110	14	89	19	34
New Mexico ³									
Arizona.....	25	29	1	2	14	23	110	9	2
Utah ¹									
Nevada ¹									
Washington.....	758	84	159	217	191	143	154	17	80
Oregon.....	208	83	144	43	129	217	40	12	18
California.....	912	422	76	747	753	97	772	21	529

² Pulmonary.³ Reports received weekly.⁴ Exclusive of Oklahoma City and Tulsa.⁵ Reports received annually.⁶ Including 6 cases at Sanatoria.

Case Rates per 1,000 Population (Annual Basis) for the Month of November, 1928

State	Chick-en pox	Diph-theria	Measles	Mumps	Scarlet fever	Small-pox	Tuber-culosis	Ty-phoid fever	Whoop-ing cough
Maine.....	2.95	0.46	7.35	2.19	1.50	0.78	0.32	0.15	1.26
New Hampshire.....		.24			2.51	.00		.00	
Vermont.....	4.81	.28	4.05	6.33	2.80	.14	.55	.00	3.50
Massachusetts.....	2.66	1.02	4.61	.66	2.19	.01	1.50	.00	1.21
Rhode Island.....	.75	1.65	2.96	.02	1.21	.00	.56	.02	.43
Connecticut.....	2.99	.78	2.39	1.65	1.06	.05	.86	.04	1.18
New York.....	2.38	.89	2.04	.80	1.19	.00	1.81	.17	1.34
New Jersey.....	3.74	1.81	1.21	—	1.16	.00	1.20	.10	1.42
Pennsylvania.....	5.19	1.16	3.38	1.95	1.67	.00	.71	.15	2.64
Ohio.....	4.76	.86	1.29	.34	1.71	.17	1.31	.12	1.73
Indiana ¹									
Illinois.....	2.54	1.71	1.30	.43	2.05	.18	1.39	.14	.77
Michigan.....	3.76	1.05	.36	.88	2.36	.18	1.40	.10	3.14
Wisconsin.....	9.54	.45	1.64	1.28	2.78	.37	.96	.04	3.00
Minnesota.....	6.80	.59	.24	—	2.12	.04	.83	.04	1.18
Iowa.....	1.66	.34	.04	1.19	1.73	.91	.20	.04	.44
Missouri.....	1.04	1.00	.70	.10	1.35	.13	.73	.30	.59
North Dakota.....	1.92	1.08	.42	.04	2.97	.08	.46	.49	.95
South Dakota ¹									
Nebraska.....	1.31	1.08	.10	.10	1.98	.61	.17	.06	.29
Kansas.....	5.16	.95	.19	1.20	2.97	.70	.52	.16	1.54

¹ Report not received at time of going to press.² Pulmonary.

February 1, 1929

*Case rates per 1,000 population (annual basis) for the month of November,
1928—Continued*

State	Chick-en pox	Diph-theria	Meas-les	Mumps	Scarlet fever	Small-pox	Tuber-culosis	Ty-phoid fever	Whoop-ing cough
Delaware.....	0.35	0.20	0.45	0.35	0.85	0.00	0.20	0.45	1.00
Maryland.....	3.29	1.29	1.03	.94	1.69	.00	1.65	.41	2.18
District of Columbia.....	1.37	4.84	.22		1.26	.00	1.86	.11	2.43
Virginia.....	2.03	2.24	.80		1.90	.00	1.76	.17	1.85
West Virginia.....	3.07	1.07	1.22		1.97	.18	.29	.42	.60
North Carolina.....	1.79	3.57	.69		2.67	.13		.22	1.00
South Carolina.....	.56	4.26	.12	.06	.57	.05	.73	.58	1.16
Georgia.....	.11	.51	.45	.03	.69	.02	.06	.14	.11
Florida.....	.04	.58	.08	.17	.39	.00	.33	.12	.08
Kentucky ³									
Tennessee.....	.73	1.00	.01	.05	1.15	.03	.63	.52	.28
Alabama.....	.34	2.55	.35	.08	1.01	.08	1.28	.38	.24
Mississippi.....	4.56	1.51	1.95	1.81	.94	.01	1.31	.75	4.76
Arkansas.....	.38	.60	.29	.36	.57	.03	.06	.39	.00
Louisiana.....	.09	.79	1.00	.01	.69	.33	.97	.33	.07
Oklahoma ⁴.....	.51	2.15	.15	.05	1.10	.47	.26	.84	.22
Texas ²									
Montana.....	6.60	.27	4.78	.42	3.18	2.20	.24	.16	.44
Idaho.....	.78	.29	.31		.87	1.50		.07	.02
Wyoming.....	6.92	.94	.30	1.63	4.23	.89	.65	.00	.10
Colorado.....	4.25	1.11	.34	1.30	1.23	.16	1.00	.21	.38
New Mexico ³									
Arizona.....	.64	.75	.03	.05	.36	.59	2.83	.23	.05
Utah ³									
Nevada ³									
Washington.....	5.83	.65	1.22	1.67	1.47	1.10	1.18	.13	.61
Oregon.....	2.81	1.12	1.95	.58	1.74	2.03	.54	.16	.24
California.....	2.44	1.13	.20	2.00	2.02	.26	2.07	.06	1.42

² Pulmonary.³ Reports received weekly.⁴ Exclusive of Oklahoma City and Tulsa.⁴ Reports received annually.⁴ Including 6 cases at Sanatoria.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 98 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 31,500,000. The estimated population of the 91 cities reporting deaths is nearly 30,000,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended January 12, 1929, and January 14, 1928

		1929	1928	Estimated expectancy
	<i>Cases reported</i>			
Diphtheria:				
45 States.....		1,778	2,524	..
98 cities.....		836	1,210	1,148
Measles:				
44 States.....		6,057	11,692	..
98 cities.....		1,401	3,272	..
Poliomyelitis:				
45 States.....		16	73	..
Scarlet fever:				
45 States.....		3,723	4,885	..
98 cities.....		1,340	1,543	1,452
Smallpox:				
45 States.....		737	1,435	..
98 cities.....		32	137	85
Typhoid fever:				
45 States.....		107	213	..
98 cities.....		22	47	43

Weeks ended January 12, 1920, and January 14, 1928—Continued

	1929	1928	Estimated expectancy
Deaths reported			
Influenza and pneumonia:			
91 cities.....	3,728	1,248	.....
Smallpox:			
91 cities.....	0	0	.....

City reports for week ended January 12, 1929

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence the number of cases of the disease under consideration that may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding weeks of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1920 is included. In obtaining the estimated expectancy the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

Division, State, and city	Population, July 1, 1926, estimated	Chick-en pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
			Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
NEW ENGLAND									
Maine:									
Portland.....	76,400	5	1	1	222	1	18	0	8
New Hampshire:									
Concord.....	122,546	0	0	0	35	0	0	0	3
Manchester.....	84,000	0	2	0	.....	1	3	0	5
Nashua.....	129,723	0	0	0	.....	1	0	0	1
Vermont:									
Barre.....	10,008	0	0	0	0	1	0	0	0
Massachusetts:									
Boston.....	787,000	92	51	37	674	19	13	11	52
Fall River.....	131,000	6	6	6	18	8	38	0	8
Springfield.....	145,000	15	4	14	3	0	227	1	10
Worcester.....	193,000	18	6	3	7	1	28	5	6
Rhode Island:									
Pawtucket.....	71,000	11	2	3	17	1	19	0	9
Providence.....	275,000	0	11	6	153	5	24	0	10
Connecticut:									
Bridgeport.....	(¹)	2	8	4	912	3	9	4	11
Hartford.....	164,000	9	8	2	197	3	3	4	18
New Haven.....	182,000	53	2	5	60	2	7	1	8
MIDDLE ATLANTIC									
New York:									
Buffalo.....	544,000	18	18	9	113	22	4	2	63
New York.....	5,924,000	339	225	222	2,649	127	74	0	437
Rochester.....	321,000	10	13	0	137	6	25	12	7
Syracuse.....	185,000	28	6	3	248	12	0	4	24
New Jersey:									
Camden.....	131,000	10	8	5	.....	10	0	1	23
Newark.....	459,000	55	21	47	756	22	4	50	53
Trenton.....	134,000	6	5	2	102	7	1	0	23
Pennsylvania:									
Philadelphia.....	2,008,000	119	85	28	271	22	12	6	180
Pittsburgh.....	637,000	52	25	7	.....	98	25	8	93
Reading.....	114,000	9	4	2	.....	7	50	0	16
Scranton.....	143,000	15	5	4	18	.....	19	1	.....

¹ Estimated, July 1, 1925.² No estimate made.

City reports for week ended January 12, 1929—Continued

Division, State, and city	Population, July 1, 1926, estimated	Chick-en-pox, cases re-reported	Diphtheria		Influenza		Meas-les, cases re-reported	Mumps, cases re-reported	Pneu-monia, deaths re-reported
			Cases, es-ti-mated ex-pectancy	Cases re-ported	Cases re-ported	Deaths re-ported			
EAST NORTH CENTRAL									
Ohio:									
Cincinnati	411,000	11	14	8	289	40	2	0	56
Cleveland	960,000	104	42	13	716	65	201	17	124
Columbus	285,000	14	7	1	62	46	4	0	25
Toledo	285,000	53	11	0	21	20	3	0	14
Indiana:									
Fort Wayne	99,900	3	5	7		2	3	0	20
Indianapolis	367,000	77	10	3		16	6	4	27
South Bend	81,700	4	1	0		0	1	0	9
Terre Haute	71,900	3	2	6		0	2	0	12
Illinois:									
Chicago	3,048,000	122	93	96	163	55	98	13	153
Springfield	64,700	13	1	0	15	8	0	1	6
Michigan:									
Detroit	* 1,242,044	108	67	49	362	73	12	10	134
Flint	136,000	25	8	2	32	16	0	1	26
Grand Rapids	156,000	5	4	0		10	14	6	5
Wisconsin:									
Kenosha	52,700	6	2	0	6	1	2	0	4
Milwaukee	517,000	83	22	5	275	36	106	10	43
Racine	69,400	22	2	0	43		22	0	
Superior	1,39,671	2	1	0	0	0	0	0	1
WEST NORTH CENTRAL									
Minnesota:									
Duluth	113,000	13	2	0		4	1	40	3
Minneapolis	434,000	158	23	9	225	20	80	17	33
St. Paul	248,000	48	14	2		17	4	24	14
Iowa:									
Davenport	1,52,469	5	1	0	3		0	0	
Des Moines	146,000	0	4	0	0		0	0	
Sioux City	78,000	9	2	0	0		1	3	
Waterloo	36,900	2	0	0			2	37	
Missouri:									
Kansas City	375,000	31	10	5		4	85	1	19
St. Joseph	78,400	2	2	2		2	1	0	4
St. Louis	830,000	34	53	40	63	10	12	4	
North Dakota:									
Fargo	1,26,403	0	0	0	0	0	0	0	5
Grand Forks	1,14,811	1	0	0	125		0	0	
South Dakota:									
Aberdeen	1,15,036	2	0	0	0		0	1	
Sioux Falls	1,30,127	0	1	0	0		53		
Nebraska:									
Lincoln	62,000	7	2	0	0		0	0	
Omaha	216,000	1	5	11	0	0	0	0	6
Kansas:									
Topeka	56,500	17	2	3	12	5	19	0	3
Wichita	92,500	9	4	1		3	0	2	8
SOUTH ATLANTIC									
Delaware:									
Wilmington	124,000	7	3	3		3	12	0	9
Maryland:									
Baltimore	808,000	157	42	23	2,183	46	1	89	94
Cumberland	1,33,741	2	1	2	148	4	16	0	3
Frederick	1,12,035	0	1	0	174	0	0	0	3
District of Columbia:									
Washington	528,000	50	22	8	567	25	2	0	37
Virginia:									
Lynchburg	* 38,403	0	1	1	908	8	0	17	13
Norfolk	174,000	3	4	2	236	0	0	23	20
Richmond	180,000	6	7	6	410	19	0	0	11
Ronoke	61,900	6	1	3		9	0	0	2
West Virginia:									
Charleston	50,700	7	2	2		7	0	0	5
Wheeling	1,50,208	2	1	1	1,533	22	3	11	13

¹ Estimated, July 1, 1925.² Special census.

City reports for week ended January 12, 1929—Continued

Division, State, and city	Population, July 1, 1926, estimated	Chick-en pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
			Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
SOUTH ATLANTIC—CON.									
North Carolina:									
Raleigh	1 30,371	1	1	1	8	10	0	0	5
Wilmington	37,700	3	1	1	0	2	0	1	3
Winston-Salem	71,800	12	1	2	0	0	0	0	12
South Carolina:									
Charleston	74,100	0	1	1	213	10	0	0	11
Columbia	41,800	6	1	4	0	3	0	2	8
Greenville	1 27,311	1	0	0	0	0	0	0	1
Georgia:									
Atlanta	(*)	3	4	4	513	24	0	1	18
Brunswick	1 16,809	0	0	0	0	0	0	0	3
Savannah	94,900	0	2	0	305	12	1	0	9
Florida:									
Miami	2 131,286	0	3	0	85	0	0	0	6
St. Petersburg	3 47,692	0	0	1	20	0	0	0	5
Tampa	102,000	7	2	1	53	7	0	0	0
EAST SOUTH CENTRAL									
Kentucky:									
Covington	58,500	0	1	3	100	6	0	0	15
Louisville	311,000	4	6	4	1,022	8	0	0	39
Tennessee:									
Memphis	177,000	7	7	17	1,815	49	0	1	17
Nashville	137,000	2	1	3	0	35	0	0	9
Alabama:									
Birmingham	211,000	2	5	2	1,224	108	0	2	44
Mobile	66,800	1	1	2	91	17	0	2	4
Montgomery	47,000	0	0	1	258	0	1	0	—
WEST SOUTH CENTRAL									
Arkansas:									
Fort Smith	1 31,643	5	0	0	0	0	0	9	—
Little Rock	75,900	3	1	1	75	0	4	3	0
Louisiana:									
New Orleans	419,000	3	13	10	361	53	3	0	31
Shreveport	59,500	16	2	1	23	11	1	0	17
Oklahoma:									
Oklahoma City	(*)	0	2	2	217	10	0	0	27
Tulsa	133,000	12	2	4	0	0	1	2	0
Texas:									
Dallas	203,000	5	9	7	—	21	1	0	27
Fort Worth	159,000	18	3	10	—	37	1	0	15
Galveston	49,100	0	2	0	2	1	0	0	14
Houston	1 164,954	2	6	6	—	13	0	0	31
San Antonio	205,000	2	2	5	—	16	2	0	10
MOUNTAIN									
Montana:									
Billings	1 17,971	2	0	0	0	0	1	0	0
Great Falls	1 29,883	15	0	0	0	0	41	2	0
Helena	1 12,637	2	0	0	103	0	1	0	2
Missoula	1 12,668	1	0	0	9	2	1	0	0
Idaho:									
Boise	1 23,042	2	0	0	0	0	0	0	0
Colorado:									
Denver	285,000	14	10	4	102	15	3	6	14
Pueblo	43,900	15	2	0	5	0	0	2	3
New Mexico:									
Albuquerque	1 21,000	0	0	0	—	2	0	0	1
Utah:									
Salt Lake City	133,000	48	3	6	—	2	2	48	4
Nevada:									
Reno	1 12,665	0	0	0	0	0	0	0	0

¹ Estimated, July 1, 1925.² No estimate made.³ Special census.

City reports for week ended January 12, 1929—Continued

Division, State, and city	Population, July 1, 1926, estimated	Chick-en pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported	
			Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported				
PACIFIC										
Washington:										
Seattle	(¹)	33	5	5	22	—	3	5	—	
Spokane	109,000	37	3	0	6	—	35	0	—	
Tacoma	106,000	9	4	0	14	1	3	28	5	
Oregon:										
Portland	1,282,333	15	11	14	29	8	39	2	15	
Salem	119,709	2	0	0	5	3	0	0	4	
California:										
Los Angeles	(²)	37	46	9	217	17	3	30	26	
Sacramento	73,400	10	3	1	23	0	1	17	6	
San Francisco	567,000	24	21	12	29	6	0	10	4	
NEW ENGLAND										
Division, State, and city	Scarlet fever		Smallpox			Typhoid fever			Whooping cough, cases reported	
	Cases, estimated expectancy	Cases reported	Cases, estimated expectancy	Cases reported	Deaths reported	Tuberculosis, deaths reported	Cases, estimated expectancy	Cases reported	Deaths reported	
Maine:										
Portland	3	6	0	0	0	1	1	0	0	30
New Hampshire:										
Concord	0	1	0	0	0	2	0	0	0	13
Manchester	2	3	0	0	0	0	0	0	0	24
Nashua	1	0	0	0	0	0	0	0	0	9
Vermont:										
Barre	0	0	0	0	0	0	0	0	0	10
Massachusetts:										
Boston	83	65	0	0	0	12	1	0	0	33
Fall River	3	4	0	0	0	2	1	0	0	52
Springfield	10	3	0	1	0	2	0	0	0	53
Worcester	12	19	0	0	0	0	0	1	0	12
Rhode Island:										
Pawtucket	1	5	0	0	0	0	0	0	0	27
Providence	10	19	0	0	0	1	1	0	0	71
Connecticut:										
Hartford	10	9	0	0	0	3	0	0	0	47
New Haven	8	4	0	0	0	3	0	0	0	61
New Haven	10	5	0	0	0	2	0	0	0	48
MIDDLE ATLANTIC										
Division, State, and city	Scarlet fever		Smallpox			Typhoid fever			Whooping cough, cases reported	
	Cases, estimated expectancy	Cases reported	Cases, estimated expectancy	Cases reported	Deaths reported	Tuberculosis, deaths reported	Cases, estimated expectancy	Cases reported	Deaths reported	
New York:										
Buffalo	26	20	0	0	0	14	0	0	0	27
New York	254	239	0	0	0	98	10	6	0	52
Rochester	15	0	0	0	0	3	1	0	0	23
Syracuse	14	7	0	0	0	1	1	0	0	23
New Jersey:										
Camden	6	9	0	0	0	1	1	0	0	6
Newark	29	7	0	0	0	8	0	0	0	28
Trenton	5	2	0	0	0	0	0	0	0	6
Pennsylvania:										
Philadelphia	98	61	0	0	0	40	3	3	2	58
Pittsburgh	40	45	0	0	0	16	1	0	1	24
Reading	3	4	0	0	0	4	0	0	0	6
Scranton	4	5	0	0	0	0	0	0	0	7
EAST NORTH CENTRAL										
Division, State, and city	Scarlet fever		Smallpox			Typhoid fever			Whooping cough, cases reported	
	Cases, estimated expectancy	Cases reported	Cases, estimated expectancy	Cases reported	Deaths reported	Tuberculosis, deaths reported	Cases, estimated expectancy	Cases reported	Deaths reported	
Ohio:										
Cincinnati	19	27	1	0	0	7	0	0	0	26
Cleveland	45	33	0	0	0	28	2	1	0	42
Columbus	12	4	1	0	0	3	0	0	0	13
Toledo	16	14	0	0	0	10	0	0	0	77

¹ Estimated, July 1, 1925.² No estimate made.

City reports for week ended January 12, 1929—Continued

February 1, 1929

City reports for week ended January 12, 1929—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis, deaths re- ported	Typhoid fever			Whoop- ing cough, cases re- ported	Deaths, all causes
	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		
SOUTH ATLANTIC—continued											
Georgia:											
Atlanta	4	6	2	1	0	3	0	0	0	1	113
Brunswick	0	0	0	0	0	0	0	0	0	0	8
Savannah	1	1	0	0	0	0	0	0	0	2	42
Florida:											
Miami	2	2	0	0	0	4	1	1	1	0	46
St. Petersburg	0	2	0	0	0	0	0	0	0	0	14
Tampa	1	1	0	0	0	1	0	1	0	7	32
EAST SOUTH CENTRAL											
Kentucky:											
Covington	2	2	0	6	0	6	0	0	0	0	42
Louisville	6	17	0	0	0	5	0	0	0	3	129
Tennessee:											
Memphis	6	9	1	0	0	3	0	1	1	3	140
Nashville	2	3	0	0	0	4	0	0	0	3	116
Alabama:											
Birmingham	4	5	4	0	0	5	1	0	0	3	262
Mobile	1	2	0	0	0	0	0	0	0	0	49
Montgomery	0	2	0	0	0	0	0	0	0	2	—
WEST SOUTH CENTRAL											
Arkansas:											
Fort Smith	1	2	0	0	0	2	0	0	0	0	—
Little Rock	2	10	0	0	0	2	0	1	0	0	—
Louisiana:											
New Orleans	6	19	1	0	0	24	3	4	0	2	206
Shreveport	1	4	1	0	0	0	0	0	0	0	61
Oklahoma:											
Oklahoma City	3	2	1	2	0	2	0	0	0	0	74
Tulsa	2	2	1	0	0	0	0	0	1	—	—
Texas:											
Dallas	4	5	1	1	0	1	0	1	0	8	106
Ft. Worth	1	14	1	24	0	2	0	0	0	0	81
Galveston	2	0	0	0	0	3	0	1	0	0	36
Houston	3	2	2	2	0	2	0	0	0	0	117
San Antonio	2	4	0	1	0	8	0	0	0	1	87
MOUNTAIN											
Montana:											
Billings	1	0	0	0	0	0	0	0	0	0	3
Great Falls	2	2	1	0	0	0	0	0	0	1	4
Helena	1	4	0	0	0	1	0	0	0	0	7
Missoula	1	1	0	0	0	0	0	0	0	0	4
Idaho:											
Boise	2	3	0	1	0	0	0	0	0	0	8
Colorado:											
Denver	11	2	2	1	0	9	0	0	0	2	109
Pueblo	3	1	0	0	0	1	0	0	0	0	7
New Mexico:											
Albuquerque	2	1	0	0	0	11	0	0	0	30	23
Utah:											
Salt Lake City	3	5	3	7	0	2	0	0	0	0	36
Nevada:											
Reno	0	0	0	0	0	0	0	0	0	0	5
PACIFIC											
Washington:											
Seattle	10	1	2	1	0	0	0	0	0	18	—
Spokane	7	5	4	1	0	0	0	0	0	2	—
Tacoma	3	2	4	1	0	0	0	0	0	3	20
Oregon:											
Portland	7	8	8	29	0	2	0	0	0	0	96
Salem	0	0	1	0	0	0	0	0	0	0	—
California:											
Los Angeles	28	59	5	0	0	41	1	0	0	22	308
Sacramento	2	16	0	0	0	0	0	0	0	8	28
San Francisco	16	30	1	0	0	8	1	0	0	6	174

City reports for week ended January 12, 1929—Continued

Division, State, and city	Meningococcus meningitis		Lethargic encephalitis		Pellagra		Poliomyelitis (infantile paralysis)		
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, estimated expectancy	Cases	Deaths
NEW ENGLAND									
Massachusetts:									
Boston.....	1	0	1	2	0	0	1	0	0
MIDDLE ATLANTIC									
New York:									
New York.....	32	14	4	2	0	0	1	0	1
Syracuse.....	2	1	0	0	0	0	0	0	0
New Jersey:									
Newark.....	1	0	0	0	0	0	0	0	0
Trenton.....	0	1	0	0	0	0	0	0	0
Pennsylvania:									
Philadelphia.....	4	0	0	0	0	0	0	0	1
Pittsburgh.....	1	1	0	1	0	0	0	0	0
EAST NORTH CENTRAL									
Ohio:									
Cincinnati.....	0	1	0	0	0	0	0	0	0
Cleveland.....	13	4	1	0	0	0	0	0	0
Columbus.....	0	0	1	1	0	0	0	0	0
Toledo.....	0	0	1	1	0	0	0	0	0
Indiana:									
Indianapolis.....	0	1	0	0	0	0	0	0	0
Illinois:									
Chicago.....	5	3	0	0	0	0	0	0	0
Michigan:									
Detroit.....	21	4	1	0	0	0	0	0	0
Wisconsin:									
Milwaukee.....	5	3	0	0	0	0	0	0	0
Racine.....	1	0	0	0	0	0	0	0	0
WEST NORTH CENTRAL									
Minnesota:									
Minneapolis.....	0	1	0	0	0	0	0	0	0
Iowa:									
Davenport.....	0	0	0	0	0	0	0	1	0
Waterloo.....	12	1	0	0	0	0	0	0	0
Missouri:									
Kansas City.....	3	2	0	0	0	0	0	0	0
St. Louis.....	4	1	0	0	0	0	0	0	0
North Dakota:									
Fargo.....	0	1	1	1	0	0	0	0	0
SOUTH ATLANTIC									
Maryland:									
Baltimore.....	2	1	0	0	0	0	0	0	0
Virginia:									
Richmond.....	1	0	0	0	0	0	0	0	0
West Virginia:									
Wheeling.....	1	0	0	0	0	0	0	0	0
Georgia:									
Atlanta.....	1	2	0	0	0	0	0	0	0
Savannah ¹	3	0	0	0	1	1	0	0	0
Florida:									
Miami.....	0	0	0	0	0	1	1	0	0
EAST SOUTH CENTRAL									
Tennessee:									
Memphis.....	1	0	0	0	0	0	0	0	0
Alabama:									
Mobile.....	0	0	0	0	0	1	0	0	0
WEST SOUTH CENTRAL									
Louisiana:									
New Orleans.....	4	0	0	0	3	0	0	0	0
Oklahoma:									
Oklahoma City.....	0	0	0	1	0	0	0	0	0
Tulsa.....	2	0	0	0	0	0	0	0	0
Texas:									
Dallas.....	0	0	0	0	0	1	0	0	0
San Antonio.....	3	2	0	0	0	0	0	0	0

¹ One case nonresident included.

* Typhus fever: 3 cases at Savannah, Ga.

City reports for week ended January 12, 1929—Continued

Division, State, and city	Meningococcus meningitis		Lethargic encephalitis		Pellagra		Poliomyelitis (infantile paralysis)		
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, estimated expectancy	Cases	Deaths
MOUNTAIN									
Colorado:									
Denver.....	2	0	0	0	0	0	0	0	0
New Mexico:									
Albuquerque.....	1	0	0	0	0	0	0	0	0
Utah:									
Salt Lake City.....	3	0	0	0	0	0	0	0	0
PACIFIC									
Washington:									
Spokane.....	3	—	0	—	0	—	0	0	—
Oregon:									
Portland.....	1	2	0	0	0	0	0	0	0
California:									
Los Angeles.....	3	1	1	0	0	0	1	0	0
Sacramento.....	2	1	0	0	0	0	0	0	0
San Francisco.....	6	4	0	0	0	0	0	0	0

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended January 12, 1929, compared with those for a like period ended January 14, 1928. The population figures used in computing the rates are approximate estimates, authoritative figures for many of the cities not being available. The 98 cities reporting cases had estimated aggregate populations of more than 31,000,000. The 91 cities reporting deaths had nearly 30,000,000 estimated population. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, December 9, 1928, to January 12, 1929—Annual rates per 100,000 population compared with rates for the corresponding period of 1927-28¹

DIPHTHERIA CASE RATES

	Week ended—									
	Dec. 15, 1928	Dec. 17, 1927	Dec. 22, 1928	Dec. 24, 1927	Dec. 29, 1928	Dec. 31, 1927	Jan. 5, 1929	Jan. 7, 1928	Jan. 12, 1929	Jan. 14, 1928
98 cities.....	157	204	144	201	131	185	148	170	138	204
New England.....	216	200	159	193	170	165	163	149	183	200
Middle Atlantic.....	139	225	145	232	155	220	178	202	157	254
East North Central.....	209	247	166	212	132	200	153	176	121	220
West North Central.....	148	129	138	123	119	125	161	96	158	111
South Atlantic.....	121	139	117	143	101	128	111	160	118	155
East South Central.....	85	127	105	127	95	112	88	105	100	56
West South Central.....	248	215	188	339	172	261	95	243	119	207
Mountain.....	18	161	71	117	18	63	70	71	87	115
Pacific.....	61	167	95	157	43	141	60	123	67	143

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1929, 1928, and 1927, respectively.

² Cincinnati, Ohio, not included.

³ Brunswick, Ga., and Dallas, Tex., not included.

⁴ Atlanta, Ga., not included.

⁵ Brunswick, Ga., not included.

⁶ Dallas, Tex., not included.

*Summary of weekly reports from cities December 9, 1928, to January 12, 1929—
Annual rates per 100,000 population compared with rates for the corresponding
period of 1927-28—Continued.*

MEASLES CASE RATES

	Week ended—									
	Dec. 15, 1928	Dec. 17, 1927	Dec. 22, 1928	Dec. 24, 1927	Dec. 29, 1928	Dec. 31, 1927	Jan. 5, 1929	Jan. 7, 1928	Jan. 12, 1929	Jan. 14, 1928
98 cities.....	181	247	176	284	160	321	197	510	231	551
New England.....	837	140	800	537	676	700	964	917	873	1,021
Middle Atlantic.....	91	205	68	250	77	330	80	468	94	501
East North Central.....	194	117	251	157	217	159	220	265	301	300
West North Central.....	271	46	224	38	201	46	198	135	394	110
South Atlantic.....	84	604	49	794	60	828	115	1,403	66	1,366
East South Central.....	15	527	20	710	15	396	14	2,118	7	2,020
West South Central.....	12	248	12	83	4	112	29	203	43	272
Mountain.....	257	27	203	18	106	36	383	62	427	106
Pacific.....	64	238	49	256	84	282	40	384	115	527

SCARLET FEVER CASE RATES

98 cities.....	201	211	185	186	180	209	195	206	221	260
New England.....	223	326	241	281	308	346	296	340	317	328
Middle Atlantic.....	143	198	144	173	138	200	148	196	160	266
East North Central.....	260	243	234	212	204	257	239	233	250	285
West North Central.....	251	204	240	202	261	192	258	203	283	262
South Atlantic.....	149	162	161	144	129	148	155	158	124	182
East South Central.....	209	142	200	117	239	117	197	63	156	63
West South Central.....	172	170	100	91	160	124	133	101	182	126
Mountain.....	62	242	27	170	27	233	113	105	157	301
Pacific.....	181	154	197	191	151	125	185	184	282	220

SMALLPOX CASE RATES

98 cities.....	8	19	8	16	14	15	13	17	5	23
New England.....	0	0	2	0	2	0	0	0	2	0
Middle Atlantic.....	0	0	0	0	0	0	1	0	0	0
East North Central.....	16	17	4	12	3	12	6	9	3	7
West North Central.....	0	115	6	77	10	79	2	106	6	147
South Atlantic.....	2	5	0	20	2	4	0	13	2	29
East South Central.....	5	5	0	20	5	10	7	7	41	7
West South Central.....	24	0	40	12	12	4	5	16	16	28
Mountain.....	44	117	44	99	35	143	35	106	78	142
Pacific.....	20	31	56	26	15	29	5	26	7	31

TYPHOID FEVER CASE RATES

98 cities.....	5	8	4	11	5	7	4	5	4	8
New England.....	7	0	2	9	2	14	5	7	2	14
Middle Atlantic.....	4	8	4	10	4	4	2	3	4	5
East North Central.....	1	3	1	8	4	5	3	3	1	3
West North Central.....	4	6	2	8	6	10	0	2	0	8
South Atlantic.....	5	9	7	16	5	13	9	17	4	2
East South Central.....	15	35	5	25	5	10	0	28	7	77
West South Central.....	16	17	8	17	8	21	5	0	28	20
Mountain.....	9	18	9	9	9	18	9	9	0	0
Pacific.....	8	16	10	10	8	0	7	5	0	10

¹ Cincinnati, Ohio, not included.

² Brunswick, Ga., and Dallas, Tex., not included.

³ Atlanta, Ga., not included.

⁴ Brunswick, Ga., not included.

⁵ Dallas, Tex., not included.

*Summary of weekly reports from cities, December 9, 1928, to January 12, 1929—
Annual rates per 100,000 population compared with rates for the corresponding
period of 1927-28—Continued*

INFLUENZA DEATH RATES

	Week ended—									
	Dec. 15, 1928	Dec. 17, 1927	Dec. 22, 1928	Dec. 24, 1927	Dec. 29, 1928	Dec. 31, 1927	Jan. 5, 1929	Jan. 7, 1928	Jan. 12, 1929	Jan. 14, 1928
91 cities.....	76	14	112	17	173	19	230	20	241	25
New England.....	9	12	14	5	14	5	48	16	100	7
Middle Atlantic.....	27	9	66	11	129	14	165	13	161	21
East North Central.....	44	11	124	13	206	10	238	10	235	13
West North Central.....	116	6	147	10	169	8	240	6	165	21
South Atlantic.....	95	14	123	20	262	22	345	23	395	40
East South Central.....	68	64	58	48	193	58	970	130	1,592	115
West South Central.....	94	55	209	72	373	81	655	83	467	67
Mountain.....	734	9	593	27	265	72	218	53	165	62
Pacific.....	317	17	213	24	182	31	134	24	79	37

PNEUMONIA DEATH RATES

	212	118	241	135	303	155	381	175	407	196
	91 cities.....									
New England.....	108	102	159	121	159	146	201	103	323	179
Middle Atlantic.....	190	117	246	126	293	158	395	186	443	214
East North Central.....	171	97	255	105	385	135	466	140	411	158
West North Central.....	212	91	295	97	242	108	216	187	285	168
South Atlantic.....	237	161	226	182	333	184	353	238	485	243
East South Central.....	188	149	188	213	246	191	533	268	659	253
West South Central.....	181	191	250	229	402	306	693	241	528	291
Mountain.....	628	134	398	242	363	197	174	195	200	168
Pacific.....	223	131	169	166	169	138	148	175	134	142

² Cincinnati, Ohio, not included.

³ Brunswick, Ga., and Dallas, Tex., not included.

⁴ Atlanta, Ga., not included.

⁵ Brunswick, Ga., not included.

⁶ Dallas, Tex., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities of each group, approximated as of July 1, 1929 and 1928, respectively

Group of cities	Number of cities reporting cases	Number of cities reporting deaths	Aggregate population of cities reporting cases		Aggregate population of cities reporting deaths	
			1929	1928	1929	1928
Total.....	98	91	31,568,400	31,052,700	29,995,100	29,498,600
New England.....	12	12	2,305,100	2,273,900	2,305,100	2,273,900
Middle Atlantic.....	10	10	10,809,700	10,702,200	10,809,700	10,702,200
East North Central.....	16	16	8,181,900	8,001,300	8,181,900	8,001,300
West North Central.....	12	9	2,712,100	2,673,300	1,736,900	1,708,100
South Atlantic.....	19	19	2,783,200	2,732,900	2,783,200	2,732,900
East South Central.....	6	5	767,900	745,500	704,200	682,400
West South Central.....	8	7	1,319,100	1,289,000	1,285,000	1,256,400
Mountain.....	9	9	598,800	590,200	598,800	590,200
Pacific.....	6	4	2,090,600	2,043,500	1,500,300	1,551,200

FOREIGN AND INSULAR

INFLUENZA IN EUROPE

A cablegram from the medical director of the health section of the League of Nations, dated January 25, 1929, states that the epidemic of influenza at Glasgow, Scotland, was increasing, with a general death rate of 45 per 1,000 population for the week ended January 19, 1929. In Berlin, Saxony, and Lower Silesia the disease reached the maximum the middle of January but the death rate was still increasing on January 25. The case mortality rate of a large Berlin sickness insurance society reached 3 per 1,000, but other parts of Germany had lower rates or were not affected. Influenza of a mild form was spreading rapidly in Denmark and southern Norway, and prevalence was stationary in Sweden. Influenza reports from other European countries did not disclose anything abnormal.

CANADA

Provinces—Communicable diseases—Two weeks ended January 12, 1929.—The Department of Pensions and National Health reports cases of certain communicable diseases from provinces of Canada for the two weeks ended January 12, 1929, as follows:

Week ended January 5, 1929

Disease	Prince Ed-ward Island	Nova Scotia	New Brunswick	Quebec	On-tario	Mani-toba	Sas-katche-wan	Al-berta	Total
Cerebrospinal fever.....									
Influenza.....	217	307	3		3,533	9	93		4,162
Lethargic encephalitis.....			1			1			2
Poliomyelitis.....			1			1			2
Smallpox.....				7	14	1	13	1	36
Typhoid fever.....				2	3		1	1	7

Week ended January 12, 1929

Disease	Nova Scotia	New Brunswick	Quebec	On-tario	Mani-toba	Sas-katche-wan	Al-berta	Total
Cerebrospinal fever.....	1			3		1		5
Influenza.....	112	11		3,130	15	90		3,238
Smallpox.....	5		12	17	4	13	1	53
Typhoid fever.....	1		6	6	1			14

Ontario Province—Communicable diseases, 1928—Comparative.—The Department of Health of the Province of Ontario, Canada, reports communicable diseases for the year 1928, as compared with 1927, as follows:

Disease	1928		1927	
	Cases	Deaths	Cases	Deaths
Cerebrospinal meningitis	42	31	39	25
Chancroid	22	0	36	0
Chicken pox	8,618	2	8,401	0
Conjunctivitis	21	0	1	0
Diphtheria	2,918	148	3,346	205
Dysentery		15		22
German measles	242	0	4,214	0
Golter	13	7	3	3
Gonorrhea	2,062	0	1,758	0
Influenza	4,730	255	179	156
Lethargic encephalitis	24	18	16	12
Measles	16,188	14	13,405	19
Mumps	19,802	3	5,035	0
Pneumonia		1,716		1,488
Poliomyelitis	85	7	51	15
Puerperal septicemia		8		5
Rabies	1	1	1	1
Scarlet fever	4,308	35	6,280	42
Septic sore throat	109	4	32	1
Smallpox	864	1	1,523	2
Syphilis	1,477	6	1,440	6
Tetanus	2	3	2	0
Trachoma	1	0	0	0
Tuberculosis	1,551	708	1,534	732
Typhoid fever	715	44	867	35
Undulant fever	14	0	0	0
Whooping cough	4,150	48	3,526	29

Quebec Province—Communicable diseases—Week ended January 5, 1929.—The Bureau of Health of the Province of Quebec reports cases of certain communicable diseases for the week ended January 5, 1929, as follows:

Disease	Cases	Disease	Cases
Chicken pox	43	Scarlet fever	61
Diphtheria	43	Smallpox	7
German measles	1	Tuberculosis	18
Influenza	807	Typhoid fever	2
Measles	18	Whooping cough	6

NEW ZEALAND

Notifiable diseases—November 11—December 8, 1928.—The Department of Health of New Zealand reports cases of notifiable diseases in New Zealand for the four weeks from November 11 to December 8, 1928, as follows:

Notifiable diseases—November 11–December 8, 1928

Disease	Cases	Deaths	Disease	Cases	Deaths
Cerebrospinal meningitis.....	3	1	Ophthalmia neonatorum.....	1	0
Diphtheria.....	127	4	Pneumonia.....	120	16
Eclampsia.....	6	0	Poliomyelitis.....	3	1
Erysipelas.....	28	0	Puerperal fever.....	25	4
Food poisoning.....	1	0	Scarlet fever.....	454	1
Hydatid.....	3	0	Tetanus.....	2	1
Influenza.....	37	5	Trachoma.....	1	0
Lead poisoning.....	1	0	Tuberculosis.....	91	39
Lethargic encephalitis.....	3	2	Typhoid fever.....	18	0

UNION OF SOUTH AFRICA

Rodent mortality.—Localized mortality in veld rodents, mainly Namaqua gerbilles, is reported in Victoria West, and in several other places in De Aar and neighboring districts, also in Kenhardt district. Results of laboratory investigation as to the cause of this mortality have so far been inconclusive. The Deputy Director of the South African Institute for Medical Research is now in the affected area investigating the matter in conjunction with Government officials.

Rabies.—As a result of investigations it has been definitely established that the cause of death of two European boys who were bitten by a red meerkat on a farm in the Wolmaranstad district, on October 30, 1928, and who died on the 20th and 23d of November, was rabies.

During the last eight years, 10 deaths following bites by mongoose, dog, or wild cat, and after illness suggestive of rabies, have been reported. In most of these cases information was received a considerable time after death, so that it was impossible to obtain material for laboratory examination, but in one or two instances where material was procured microscopical examination and biological tests were negative. However, circumstances have raised the suspicion that there is rabies infection over a considerable area of the Union, and investigation is being carried on. People are being warned of the danger of animal bites, and urged to take immediate precautions if bitten.

VIRGIN ISLANDS

Communicable diseases—December, 1928.—During the month of December, 1928, cases of communicable diseases were reported from the Virgin Islands as follows:

St. Thomas and St. John:		St. Croix:	
Dengue.....	1	Gonorrhea.....	2
Dysentery.....	3	Syphilis.....	1
Gonorrhea.....	2	Tuberculosis.....	1
Pellagra.....	1		
Syphilis.....	3		
Tuberculosis.....	1		
Uncinariasis.....	4		

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

From medical officers of the Public Health Service, American consuls, health section of the League of Nations, and other sources. The reports contained in the following table must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given:

CHOLERA

[C indicates cases; D, deaths; P, present]

Place	July 29-Aug. 26, 1928						Sept. 20-Oct. 27, 1928						Oct. 27, 1928						November, 1928						December, 1928						Week ended—											
	July 29, 1928	Aug. 26, 1928	Sept. 22, 1928	Oct. 20, 1928	Oct. 27, 1928	Nov. 3, 1928	Nov. 10, 1928	Nov. 17, 1928	Nov. 24, 1928	Dec. 1, 1928	Dec. 8, 1928	Dec. 15, 1928	Dec. 22, 1928	Dec. 29, 1928	Jan. 5, 1929	Jan. 5, 1929	Jan. 5, 1929	Jan. 5, 1929	Jan. 5, 1929	Jan. 5, 1929	Jan. 5, 1929	Jan. 5, 1929	Jan. 5, 1929	Jan. 5, 1929	Jan. 5, 1929	Jan. 5, 1929	Jan. 5, 1929	Jan. 5, 1929														
Ceylon: Ingrinya Province	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D								
China:																																										
Canton	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D						
Kwantung—Dairen	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D						
Shanghai	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D						
Dutch East Indies: Java—Batavia	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D						
India	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D						
Bombay	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D						
Calcutta	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D						
Madras	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D						
Madras Presidency	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D						
Moulmein	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D					
Negapatam	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D						
Rangoon	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D						
Tuticorin	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D						
Vizagapatam	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D					

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

CHOLERA—Continued

[C indicates cases; D, deaths; P, present]

Place	Week ended—						December, 1928						Jan. 5, 1929
	July 29— Aug. 26— Sept. 23, 1928	Aug. 26— Sept. 23, 1928	Sept. 22— Oct. 20, 1928	Oct. 27, 1928	November, 1928			1	8	15	22	29	
India (French):													
Chandernagor	C	7	3	16	12	11	20	18	4	3	2		
Karikal	D	3	2	7	12	8	14	6	3	1	2		
Pondicherry Province	D	30	41	9	4	4	99	6	1	1	4		
Indo-China (see also table below):													
Pnompenh	D	21	26	8	3	4	75	3	1	1	4		
Saigon	D	114	132	31	4	1	1	13	16	8	5		
Siam	D	60	72	10	4	1	9	11	7	3	8		
Japan: Osaka	C	2	3	2	1	1	1	1	1	1	1		
Kwangchow-Wan (see table below):													
Philippine Islands:													
Bulacan Province—Pompong	D	1	1	1	1	1	1	1	1	1	1		
Cagayan Province	D	2	2	2	2	2	2	2	2	2	2		
Bataan Province	D	1	1	1	1	1	1	1	1	1	1		
Manila	D	3	3	3	3	3	3	3	3	3	3		
Surigao Province—Surigao	D	2	2	2	2	2	2	2	2	2	2		
Siam:	D	40	21	14	9	16	4	19	26	20	60		
Antisong	D	18	14	10	8	8	3	8	15	11	41		
Ayudhya	D	26	1	7	9	5	1	1	2	2	1	2	
Bangkok	D	4	5	4	5	4	1	2	8	4	4	8	
Dhamspur	D	1	1	1	1	1	1	2	7	1	4	3	
Lopburi	D	3	3	3	3	3	3	3	1	1	2	3	
Nondpuri	D	4	3	3	3	3	3	3	2	1	1	2	
												23	
												4	
												1	

PLACES

¹ During the period from Nov. 10 to Dec. 11, 1928, 13 cases of plague were reported at El Molle, Tucuman Province, Argentina. During the same period 1 case of plague was reported at Chilpén and 1 at Ueacha, both in Cordoba Province, Argentina.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

PLAQUE—Continued

[C indicates cases; D, deaths; P, present]

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

PLAQUE—Continued

[C indicates cases; D, death; P, present]

Place	Week ended—	July 26-			Aug. 26-			Sept. 23-			Oct. 27-			Nov. 20-			December, 1928			January, 1929		
		25,	1928	22,	1928	20,	1928	27,	1928	3,	10	17	24	1	8	15	22	29	5	12		
Hawaii Territory—Hawaii:																						
Hamakua District—																						
Hanakua—Plague-infected rats.	D	1	2																			
Honokaa			4																			
Plague-infected rats.																						
Kuktaiian—Plague-infected rats.	D	1	3																			
Kuluhalea.																						
Paauilo.	D	1	1																			
India	C	1,936	3,854	6,200	1,707	1,957	3,030	1,967	1,960													
	D	1,037	1,073	3,225	1,042	1,014	1,244	1,128	1,067													
Bassein	D	8	1	7	4	2	3	2	2													
Bombay	D	6	6	5	1	1	1	1	1													
Plague-infected rats.	D	7	20	13	1	7	7	7	7													
Calcutta.	D	2	1	1	1	1	1	1	1													
Madras Presidency	D	217	317	196	128	132	135	144	211													
Rangoon	D	105	147	97	67	48	57	63	71													
Indo-China (see also table below):																						
Pnompenh.	C	1	6	1	1	1	1	1	1													
Saigon	C	1	4	1	1	1	1	1	1													
Iraq: Baghdad.	D	1	4	1	1	1	1	1	1													
Madagascar (see also table below):																						
Tamatave.	C	8	9	13	3	3	1	1	1													
Nigeria:																						
Lagos.	C	51	60	88	24	19	25	15	9													
Paraguay: Asuncion	D	52	59	21	18	24	14	14	9													
Sumpal (see table below).	C	62	91	51	56	38	30	1	1													
Siam	C																					
Bangkok	D																					
Fanknampo	D																					
	C																					

February 1, 1929

Straits Settlements:

Ipoh.....

Syria (see table below).

Turkey.

Adala.

Constantinople.

Union of South Africa:

Cape Province.

Orange Free State.

Union of Soviet Socialist Republics:

Armenia.

Kirghiz District.

Krasnolark District.

Chita District.

Kalmouth District.

Ural Government.....

On vessel:
S. S. *Aureomedon*, at Penang, Straits Settlements.
S. S. *Hafadan*, at Bangkok, from Singapore.

Place

Place

Place

1

British East Africa (see also table above):

Kenya.....

Uganda.....

Ecuador: Guayaquil.....

Plague-infected rats.....

Indo-China (see also table above)

Madagascar (see also table above)

Ambositra Province.....

Antsirabe Province.....

Itasy Province.....

Mahajanga.....

Moramanga Province.....

Madagascar—Continued.

Tamatave.....

Tannanarive Province.....

Senegal (see also table above).....

Bohol 1.....

Cagay 1.....

Palau 1.....

Louga 1.....

Port Lyautey 1.....

Tunisque 1.....

Thies 1.....

Trivenesane 1.....

Syrat Beirut.....

C

D

P

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¹ Reports incomplete.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

SMALLPOX

[C indicates cases; D, deaths; P, present]

Place	Week ended—												January, 1929								
	July				August				September				November, 1928			December, 1928			January, 1929		
	Sept. 22, 1928	Oct. 20, 1928	Oct. 27, 1928	Okt. 1928	Sept. 22, 1928	Aug. 25, 1928	Sept. 22, 1928	Oct. 20, 1928	Oct. 27, 1928	Nov. 3, 1928	Nov. 10, 1928	Nov. 17, 1928	Nov. 24, 1928	Dec. 1, 1928	Dec. 8, 1928	Dec. 15, 1928	Dec. 22, 1928	Dec. 29, 1928	Jan. 5, 1929	Jan. 12, 1929	Jan. 19, 1929
Alevis:																					
Algeria:																					
Oran:	C	8	2	4						1	1	1									
Arabia: Aden:	C	1	1																		
British East Africa: Kenya—Mombasa.	D																				
British South Africa:	C																				
Northern Rhodesia	D	310	382	195	57	270	15	2	7												
Southern Rhodesia	D	23	22	7	6	7															
Tanganyika:	D	17	5	9	1					1											
Canada:	C																				
Alberta:	C	25	6	4	1					3	7	1	13	1						1	
British Columbia—Vancouver	C	6	16	1	12					9	5	4	8	8						9	
Manitoba:	C										16	5	1	7	16	2				1	
Winnipeg and vicinity	C										13	2	1	1	1					1	
New Brunswick	C	5	3	15	5					4	3	4	4	2	5	4	1	14			
Ontario:	C	1	1	1	1																
Kingston:	C																				
North Bay:	C																				
Ottawa:	C	1	6	2	2	1	2	1	1												
Sarnia:	C																				
Quebec:	C	27	25	75	20	8	40	49	25	72	30	8	10	8							
Montreal:	C	2	12	4	7	1	2					1	1	2	1					2	
Quebec:	C	12	13	12	3	1	3					3	1	1	1					3	
Saskatchewan:	C	6	3	1	6					4	11	12	11	18	1	6	7				
Moose Jaw:	C																				
Regina:	C																				
China:	C																				
Amoy:	C		P	P					P												
Canton:	C		P	P					P												
Chetoo:	C		P	P					P												
Foochow:	C		P	P					P												
Hong Kong:	C	19	9	7	6																
	D	16	7	8	6																

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

SMALLPOX—Continued

[C indicates cases; D, deaths; P, present]

Place	Week ended—												January, 1929					
	July 29- Aug. 25, 1928	Aug. 26- Sept. 22, 1928	Sept. 23- Oct. 20, 1928	Oct. 27- Nov. 2, 1928	November, 1928			December, 1928			1	8	15	22	29	5	12	19
Great Britain—Continued:																		
Scotland—																		
Aberdeen	C	4	3															
Dundee	C	1	1															
Glasgow (see table below)	C																	
Hednesford	D																	
India—																		
Cuttack	C	6,218	4,453	2,702	617	727	824	873	4,065									
Delhi	D	1,733	1,116	696	157	191	214	274	201									
Dacca	C	1,293	1,144	144	5	2	1	1	2									
Dhaka	D	21	11	12	2	2	1	1	2									
Dibrugarh	C	22	13	7	1	1	1	3	2									
Dhaka	D	17	17	4	1	1	1	2	1									
Kurachi	C																	
Madras	C	43	90	77	31	9	11	20	16									
Madrassah	D	10	21	23	5	8	3	6	4									
Moulmein	C	9	4	2														
Nagapatnam	D	4	1															
Nagpur	C	36	46	61	7	13	12	6	3									
Rangoon	D	9	10	11	2	3	1	2	1									
Tattonorin	D	2	1															
Visagapatam	C	1	14	3														
India (French):																		
Chander Nagar	D	1	3															
Pondicherry Province	C	2	9	4		3												
Indo-China (see also table below):																		
Phnompeh	D	45	87	73	27	17	11	12	16	13	17							
Saigon	C	2	19	28	12	12	6	5	8	23	8							
	D	2	15	10	1	2	4	4	4	9	3	10	6					

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

SMALLPOX—Continued

[C indicates cases; D, deaths; P, present]

Place	August, 1928			September, 1928			October, 1928			November, 1928			Dec. 1-10, 1928		
	1-10	11-20	21-30	1-10	11-20	21-31	1-10	11-20	21-30	1-10	11-20	21-30	1-10	11-20	21-30
Indo-China (see also table above)	C 71	C 27	C 17	C 38	C 19	C 1	C 43	C 65	C 57	C 32	C 33	C 33	C 33	C 33	C 33
Ivory Coast (see also table above)	C 0	C 2	C 0	C 2	C 0	C 2	C 0	C 2	C 0	C 0	C 0	C 0	C 0	C 0	C 0
Senegal (see also table above)	C 0	C 4	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0
Singapore (French)	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0
Syria:															
Aleppo	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0
Beirut	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0
Place	Aug., 1928			Sept.-Oct., 1928			Oct.-Nov., 1928			Phase			Aust.-Sept., 1928		
	1-10	11-20	21-30	1-10	11-20	21-31	1-10	11-20	21-30	France	Greece	Morocco	Oto-nov., 1928	No-vember, 1928	De-cember, 1928
Brazil: Porto Alegre	C 2	C 1	C 12	C 3	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 6	C 3	C 3
British East Africa: Zanzibar	C 0	C 0	C 1	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 0	C 3	C 6	C 6
Ecuador: Guayaquil	D 38	P 22	P 6	P 6	D 1	D 3	D 1	D 0	D 0	C 1	C 1	C 1	C 1	C 1	C 1
	D 0	D 1	D 0	D 0	D 0	D 0	D 0	D 0	D 0	D 0	D 0	D 0	D 2	D 2	D 2

TYPHUS FEVER

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February 1, 1929

Place	Week ended—													
	July 29-Aug. 1928			Sept. 23-Oct. 1928			November, 1928				December, 1928			
	July 29, 1928	Aug. 26, 1928	Sept. 23, 1928	Oct. 20, 1928	Oct. 27, 1928	Nov. 3,	Nov. 10,	Nov. 17,	Nov. 24,	Dec. 1,	Dec. 8,	Dec. 15,	Dec. 22,	Dec. 29,
Algeria:														
Algiers	10	2	1	1	1	1	1	1	1	1	1	1	1	1
Oran	4	2	1	1	1	1	2	1	1	1	1	4	4	4
Bulgaria:	8	6	8	8	1	1	1	1	1	1	1	1	1	1
Sofia	2	3	3	3	3	3	3	3	3	3	3	3	3	3
Chile: Valparaiso														
China:														
Manchuria—														
Harbin														
Kwantung														
Tienhsin														
Chosen (see table below)														
Egypt:														
Alexandria	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Assiout Province	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Assuan Province	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Beheira Province	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cairo	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Menoufieh Province	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Port Said	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Suez	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Greece (see table below).														
Ireland:														
Irish Free State—														
Clare County—Scarrif	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dublin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kerry County—														
Cahirciveen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tralee	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan: Miyagi	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DISEASES OF MIGRANT SEASIDE POPULATIONS IN THE MEDITERRANEAN AND BLACK SEAS

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

TYRITIS PEYER-COMPLEX

[C indicates cases; D, deaths; P, present]

February 1, 1929

Place	August, 1928	September, 1928	October, 1928	November, 1928	December, 1928	Place	August, 1928	September, 1928	October, 1928	November, 1928	December, 1928
Chosen:						Turkey.....	C	4	6	4	2
Chemulpo	C	1	2	3		Yugoslavia.....	D	2	6	1	1
Seoul	C	1	1	1			C	2	6	1	17
Greece: Athens	D	1	1	4			D	1	1	1	1
Lithuania	C	15	1	4	11						
	D	2									

YELLOW FEVER

Place	Week ended—												X
	July 28-Aug. 25, 1928			Sept. 23-Oct. 20, 1928			Oct. 27, 1928			November, 1928			
Brazil:													
Bahia	C	1	1	D	2		C	1					
Pernambuco	D	14	9	C	6	1	D	1					
Rio de Janeiro	C	4	8	D	4	1	D	1					
Dahomey: Ouidah Military Camp	D	1		D	2		D	1					
Gambia: Bathurst	C	1		D	1		D	1					
Ivory Coast: Ferkes-Sedougou	D	1		D	1		D	1					
On vessel:													
S. S. Barroli, at Santos, Brazil	C	1		D	1		D	1					
S. S. Victoria, at Mancos from Pern., Brasil	C	1		D	1		D	1					